

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052119\
 Data File : VD062477.D
 Acq On : 21 May 2019 13:28
 Operator : VA/AP
 Sample : VD0521SBS01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: May 22 01:43:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 21 03:32:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	739769	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	1014565	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	857935	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	441685	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	434524	54.87	ug/l	0.00
Spiked Amount			Recovery	=	109.74%	
35) Dibromofluoromethane	6.93	113	492974	53.86	ug/l	-0.02
Spiked Amount			Recovery	=	107.72%	
50) Toluene-d8	10.41	98	1061769	53.01	ug/l	-0.02
Spiked Amount			Recovery	=	106.02%	
62) 4-Bromofluorobenzene	13.56	95	428129	48.86	ug/l	0.00
Spiked Amount			Recovery	=	97.72%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.58	85	185911	24.216	ug/l	93
3) Chloromethane	1.75	50	117713	22.969	ug/l	100
4) Vinyl Chloride	1.85	62	118884	22.045	ug/l	93
5) Bromomethane	2.15	94	44389	19.075	ug/l	90
6) Chloroethane	2.25	64	47008	18.019	ug/l	100
7) Trichlorofluoromethane	2.53	101	198459	15.927	ug/l	98
8) Diethyl Ether	2.88	74	25876	15.395	ug/l	87
9) 1,1,2-Trichlorotrifluoroet	3.15	101	166201	22.421	ug/l	94
10) Methyl Iodide	3.30	142	229877	22.240	ug/l #	86
11) Tert butyl alcohol	4.09	59	37523	102.658	ug/l #	85
12) 1,1-Dichloroethene	3.13	96	124460	22.718	ug/l	91
13) Acrolein	3.04	56	23574	77.663	ug/l	95
14) Allyl chloride	3.62	41	178606	22.110	ug/l #	80
15) Acrylonitrile	4.20	53	91598	109.363	ug/l	92
16) Acetone	3.24	43	147380	103.860	ug/l #	82
17) Carbon Disulfide	3.37	76	363921	21.934	ug/l	98
18) Methyl Acetate	3.65	43	56806	23.199	ug/l	98
19) Methyl tert-butyl Ether	4.24	73	270187	21.352	ug/l	99
20) Methylene Chloride	3.82	84	134164	18.179	ug/l	93
21) trans-1,2-Dichloroethene	4.23	96	137255	21.401	ug/l	98
22) Diisopropyl ether	5.13	45	395275	22.989	ug/l #	89
23) Vinyl Acetate	5.07	43	1125235	108.304	ug/l	97
24) 1,1-Dichloroethane	4.99	63	232218	20.970	ug/l	97
25) 2-Butanone	6.08	43	165164	111.284	ug/l	93
26) 2,2-Dichloropropane	6.03	77	249956	20.940	ug/l	94
27) cis-1,2-Dichloroethene	6.05	96	152042	21.985	ug/l	95
28) Bromochloromethane	6.44	49	80519	20.259	ug/l	98
29) Tetrahydrofuran	6.47	42	78400	110.607	ug/l	97
30) Chloroform	6.67	83	293678	20.802	ug/l	98
31) Cyclohexane	6.97	56	161865	21.649	ug/l	98
32) 1,1,1-Trichloroethane	6.88	97	310736	21.801	ug/l	96
36) 1,1-Dichloropropene	7.15	75	213847	22.046	ug/l	93
37) Ethyl Acetate	6.20	43	80823	21.448	ug/l #	88
38) Carbon Tetrachloride	7.11	117	309351	21.459	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.86	83	184931	23.115	ug/l	96
40) Benzene	7.46	78	426590	22.421	ug/l	97
41) Methacrylonitrile	6.46	41	101501	21.447	ug/l #	79
42) 1,2-Dichloroethane	7.59	62	207264	20.572	ug/l	95
43) Isopropyl Acetate	9.25	43	106129	21.230	ug/l	98
44) Trichloroethene	8.55	130	163523	21.465	ug/l	93
45) 1,2-Dichloropropane	8.94	63	107770	23.243	ug/l	98
46) Dibromomethane	9.07	93	87784	20.886	ug/l	88
47) Bromodichloromethane	9.38	83	219344	20.515	ug/l	95
48) Methyl methacrylate	9.12	41	71638	21.295	ug/l #	86
49) 1,4-Dioxane	9.09	88	14480	479.873	ug/l #	70
51) 4-Methyl-2-Pentanone	10.30	43	374594	113.429	ug/l	95
52) Toluene	10.51	92	299954	23.029	ug/l	100
53) t-1,3-Dichloropropene	10.92	75	200112	22.480	ug/l	99
54) cis-1,3-Dichloropropene	10.05	75	210018	22.611	ug/l #	86
55) 1,1,2-Trichloroethane	11.19	97	102580	23.237	ug/l	93
56) Ethyl methacrylate	11.04	69	105365	22.327	ug/l #	84
57) 1,3-Dichloropropane	11.41	76	149990	22.155	ug/l	96
58) 2-Chloroethyl Vinyl ether	9.86	63	279480	115.331	ug/l	97
59) 2-Hexanone	11.53	43	278827	116.171	ug/l	92
60) Dibromochloromethane	11.69	129	181870	21.450	ug/l	94
61) 1,2-Dibromoethane	11.81	107	122142	22.451	ug/l	97
64) Tetrachloroethene	11.27	164	154505	21.508	ug/l	93
65) Chlorobenzene	12.40	112	350480	21.243	ug/l	99
66) 1,1,1,2-Tetrachloroethane	12.52	131	166478	21.860	ug/l	94
67) Ethyl Benzene	12.53	91	634512	22.328	ug/l	97
68) m/p-Xylenes	12.67	106	457243	44.824	ug/l	95
69) o-Xylene	13.05	106	202172	21.006	ug/l	82
70) Styrene	13.08	104	379908	23.203	ug/l	96
71) Bromoform	13.23	173	106801	21.117	ug/l	97
73) Isopropylbenzene	13.40	105	600991	21.586	ug/l	95
74) N-amyl acetate	13.26	43	150948	21.952	ug/l	97
75) 1,1,2,2-Tetrachloroethane	13.70	83	108978	21.697	ug/l	97
76) 1,2,3-Trichloropropane	13.74	75	114101	21.932	ug/l	99
77) Bromobenzene	13.67	156	168326	21.313	ug/l	84
78) n-propylbenzene	13.78	91	737643	22.873	ug/l	98
79) 2-Chlorotoluene	13.84	91	446214	22.800	ug/l	96
80) 1,3,5-Trimethylbenzene	13.93	105	541353	22.457	ug/l	93
81) trans-1,4-Dichloro-2-buten	13.47	75	31442	21.429	ug/l #	72
82) 4-Chlorotoluene	13.95	91	497758	22.085	ug/l	90
83) tert-Butylbenzene	14.19	119	580745	21.719	ug/l	94
84) 1,2,4-Trimethylbenzene	14.24	105	512416	20.745	ug/l	91
85) sec-Butylbenzene	14.37	105	645154	23.139	ug/l	95
86) p-Isopropyltoluene	14.49	119	538922	21.329	ug/l	95
87) 1,3-Dichlorobenzene	14.45	146	289407	20.750	ug/l	99
88) 1,4-Dichlorobenzene	14.54	146	301489	22.401	ug/l	95
89) n-Butylbenzene	14.80	91	533506	21.879	ug/l	95
90) Hexachloroethane	15.01	117	147882	21.177	ug/l	98
91) 1,2-Dichlorobenzene	14.81	146	267983	22.596	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	15.38	75	20487	21.489	ug/l	71

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Quant Title : SW846 8260
QLast Update : Tue May 21 03:32:39 2019
Response via : Initial Calibration

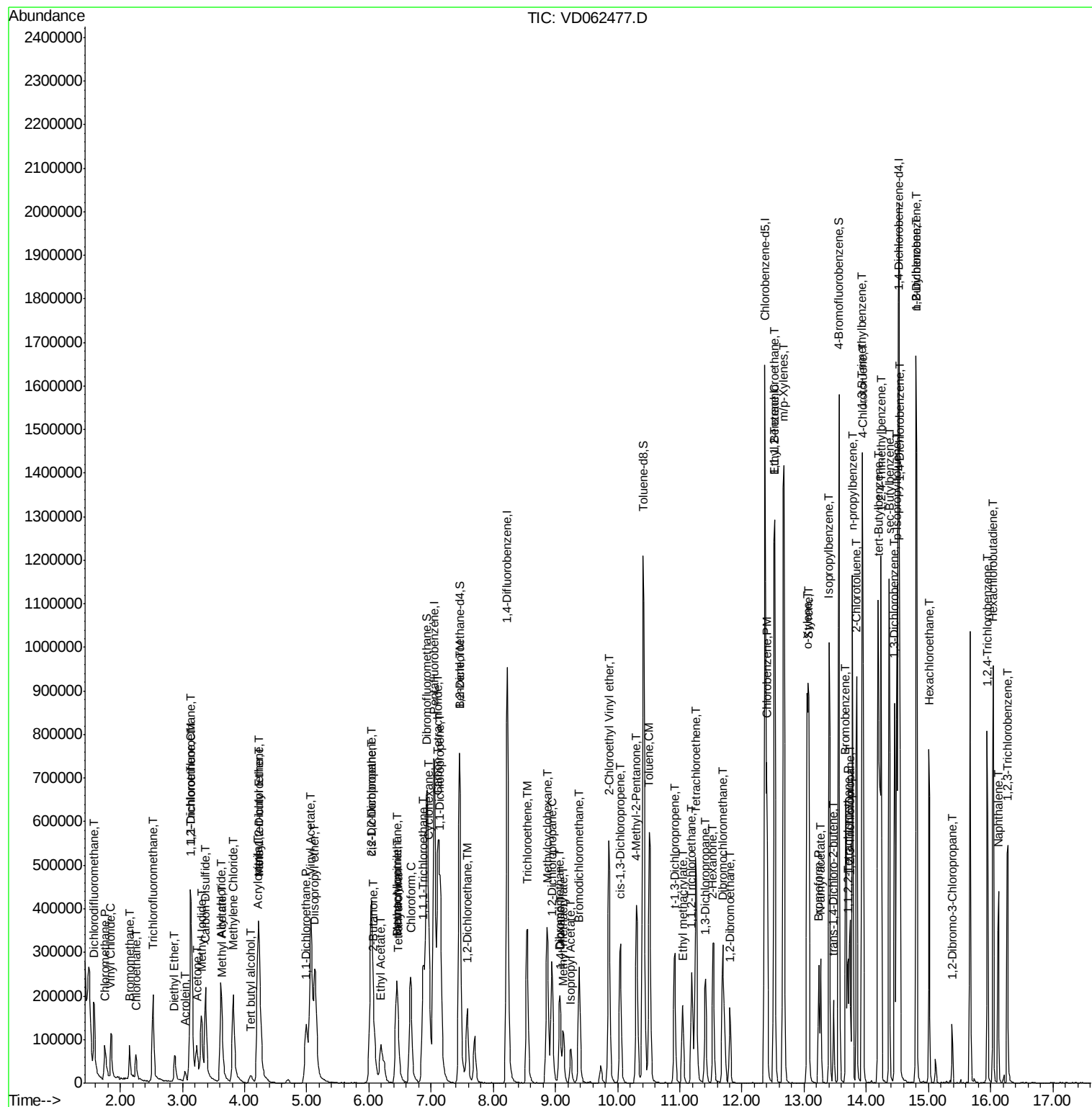
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.94	180	209470	22.431	ug/l	100
94) Hexachlorobutadiene	16.04	225	150216	21.786	ug/l	96
95) Naphthalene	16.13	128	276203	21.646	ug/l	99
96) 1,2,3-Trichlorobenzene	16.27	180	161079	21.041	ug/l	95

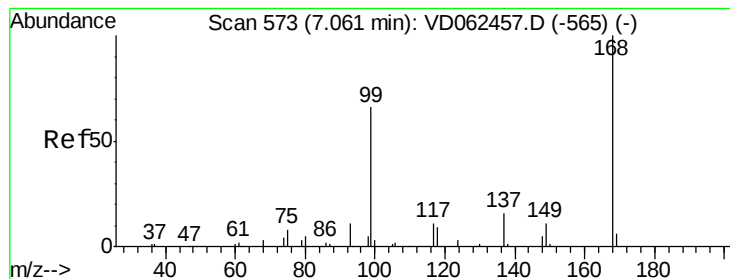
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampled :

Quant Time: May 22 01:43:09 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
Quant Title : SW846 8260
QLast Update : Tue May 21 03:32:39 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.01 min

Lab File: VD062477.D

Acq: 21 May 2019 13:28

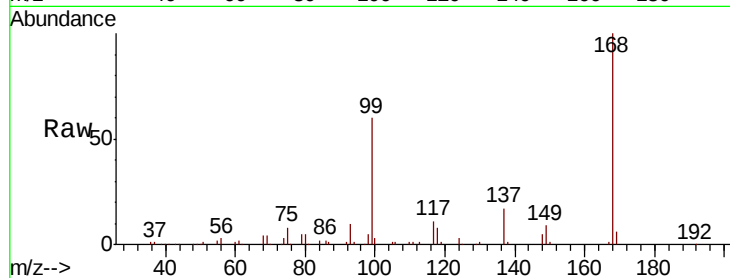
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 739769

Ion Ratio Lower Upper

168 100

99 59.7 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

250000

200000

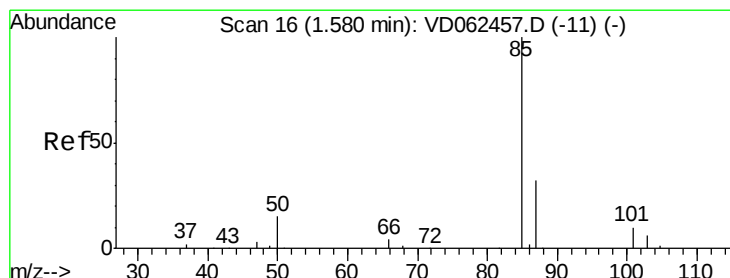
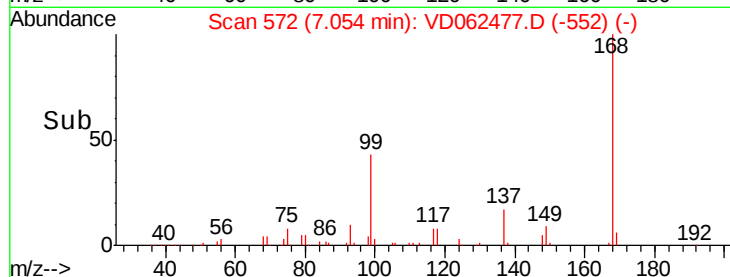
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 24.216 ug/l

RT: 1.58 min Scan# 16

Delta R.T. 0.00 min

Lab File: VD062477.D

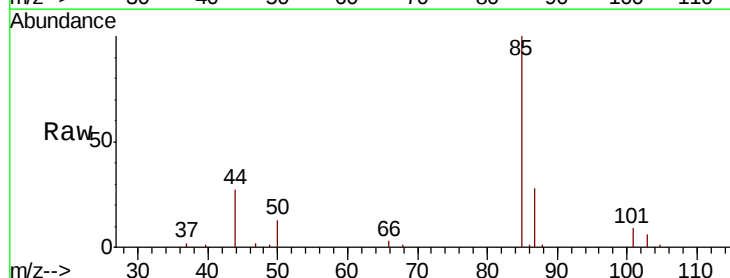
Acq: 21 May 2019 13:28

Tgt Ion: 85 Resp: 185911

Ion Ratio Lower Upper

85 100

87 28.3 16.2 48.6



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.58

100000

80000

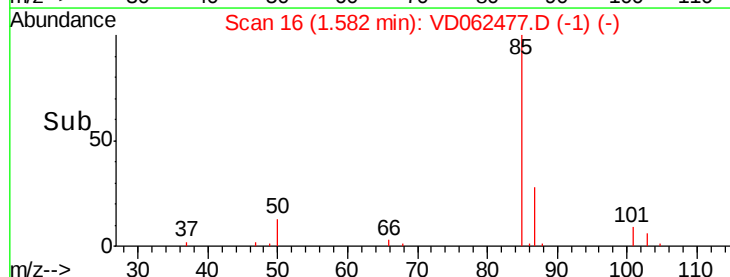
60000

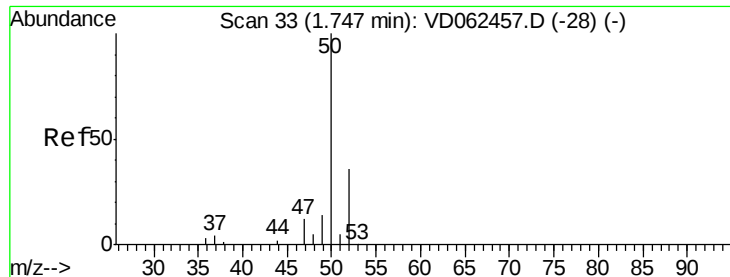
40000

20000

0

Time-->





#3

Chloromethane

Concen: 22.969 ug/l

RT: 1.75 min Scan# 33

Delta R.T. 0.00 min

Lab File: VD062477.D

Acq: 21 May 2019 13:28

Instrument :

MSVOA_D

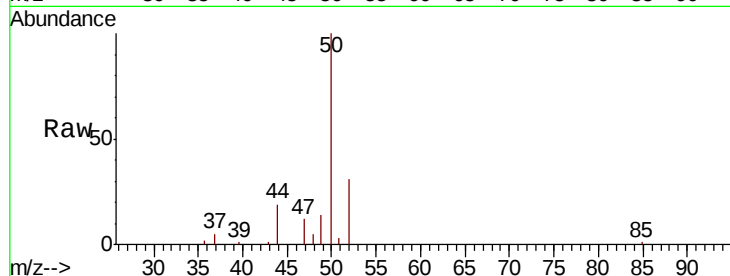
ClientSampleId :

Tot Ion: 50 Resp: 117713

Ion Ratio Lower Upper

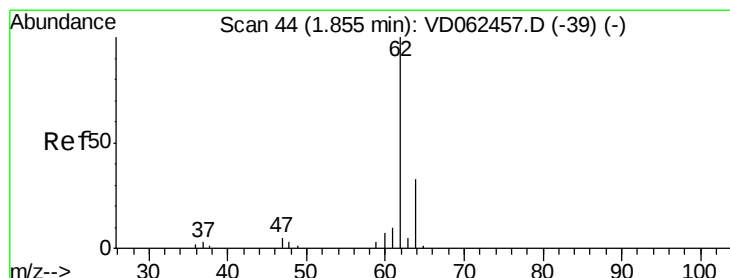
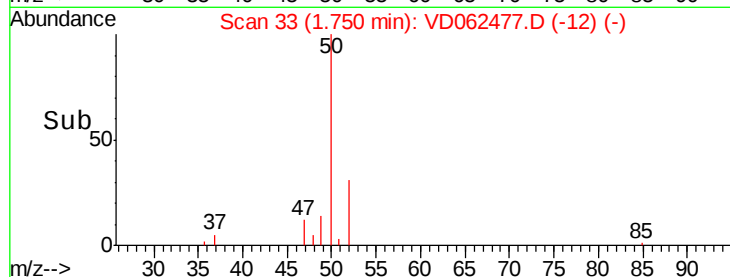
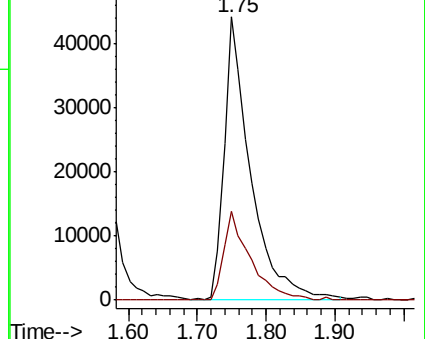
50 100

52 31.2 25.2 37.8



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 22.045 ug/l

RT: 1.85 min Scan# 43

Delta R.T. -0.01 min

Lab File: VD062477.D

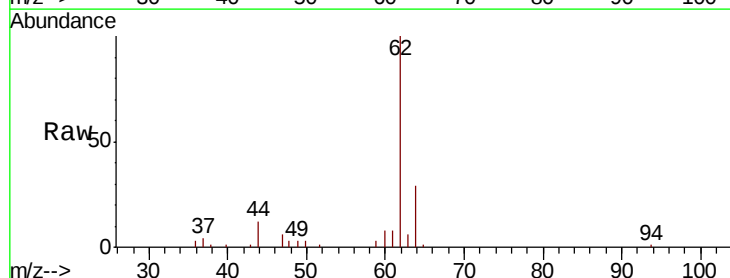
Acq: 21 May 2019 13:28

Tgt Ion: 62 Resp: 118884

Ion Ratio Lower Upper

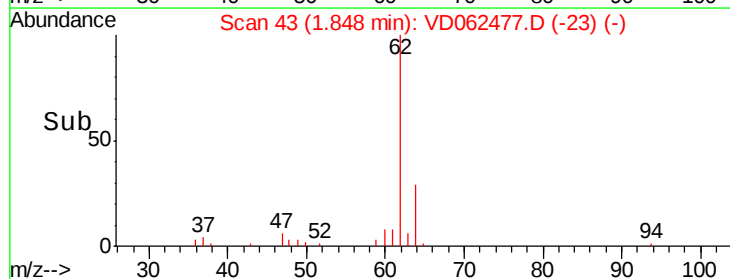
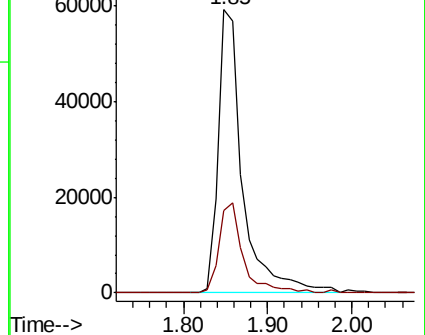
62 100

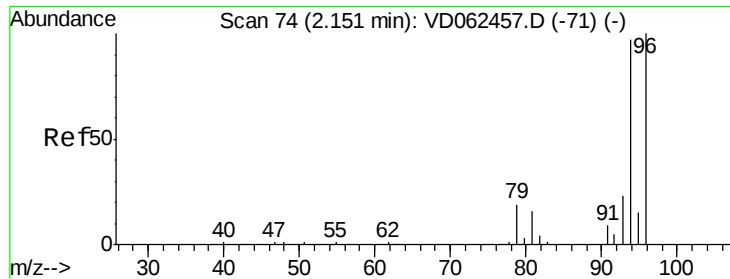
64 29.3 26.5 39.7



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 19.075 ug/l

RT: 2.15 min Scan# 74

Delta R.T. 0.00 min

Lab File: VD062477.D

Acq: 21 May 2019 13:28

Instrument :

MSVOA_D

ClientSampleId :

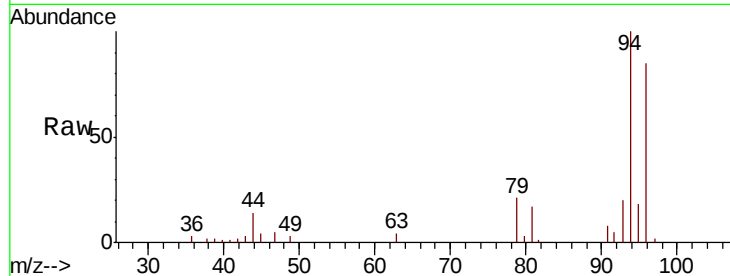
Tot Ion: 94 Resp: 44389

Ion Ratio Lower Upper

94 100

96 84.8 76.6 115.0

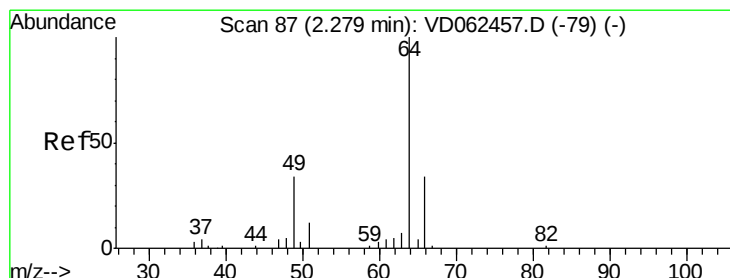
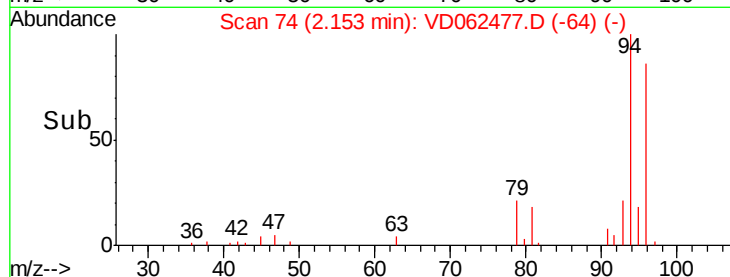
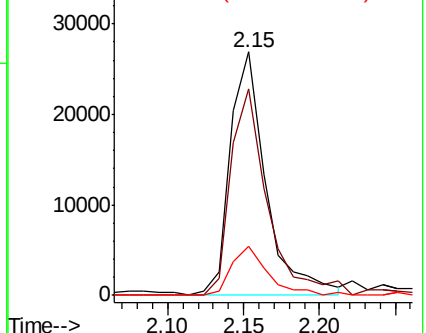
93 20.4 18.5 27.7



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC



#6

Chloroethane

Concen: 18.019 ug/l

RT: 2.25 min Scan# 84

Delta R.T. -0.03 min

Lab File: VD062477.D

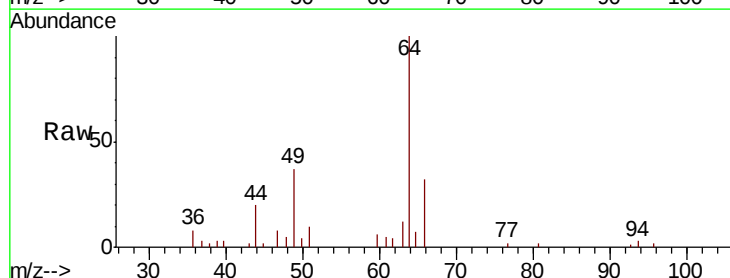
Acq: 21 May 2019 13:28

Tgt Ion: 64 Resp: 47008

Ion Ratio Lower Upper

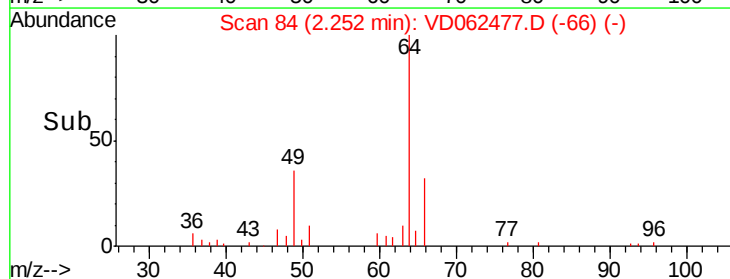
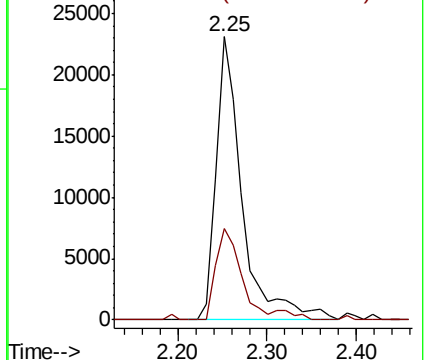
64 100

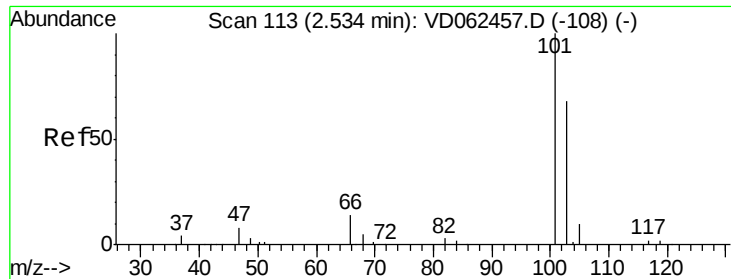
66 32.2 25.6 38.4



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



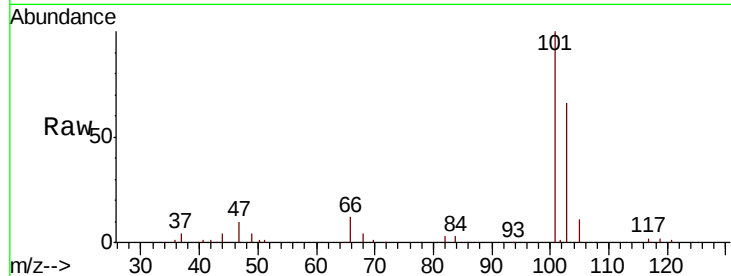


#7

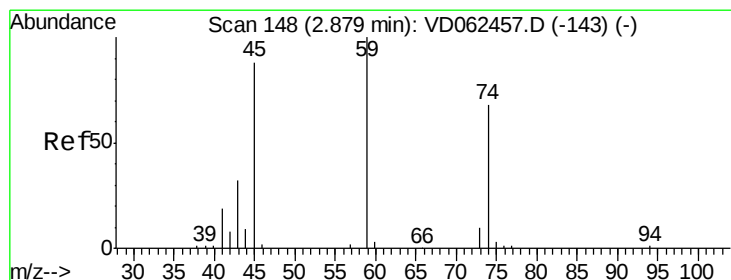
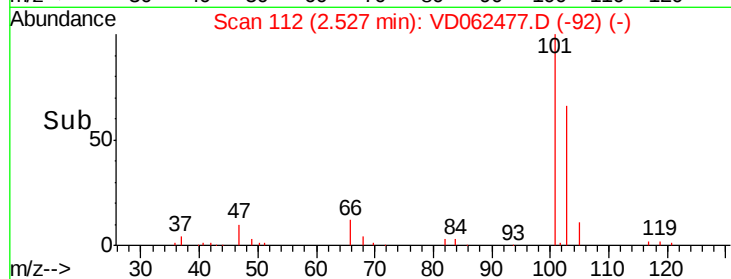
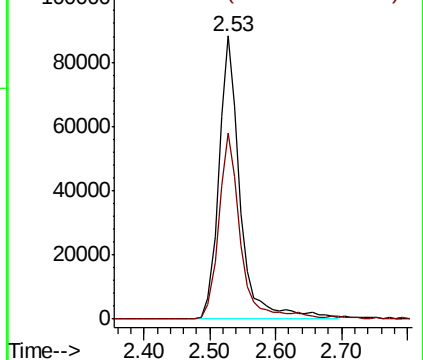
Trichlorofluoromethane
Concen: 15.927 ug/l
RT: 2.53 min Scan# 112
Delta R.T. -0.01 min
Lab File: VD062477.D
Acq: 21 May 2019 13:28

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:101 Resp: 198459
Ion Ratio Lower Upper
101 100
103 65.8 53.6 80.4



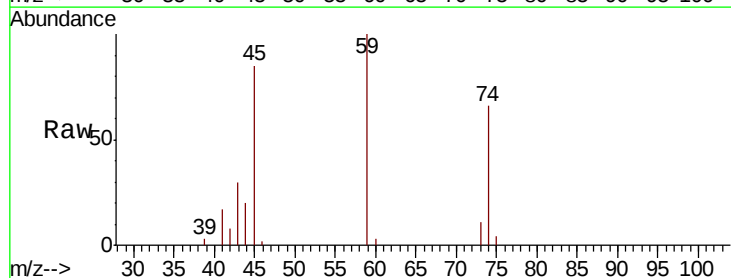
Abundance Ion 100.85 (100.55 to 101.55): V
Ion 102.85 (102.55 to 103.55): V



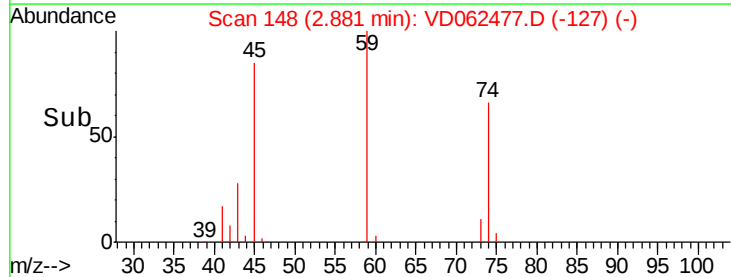
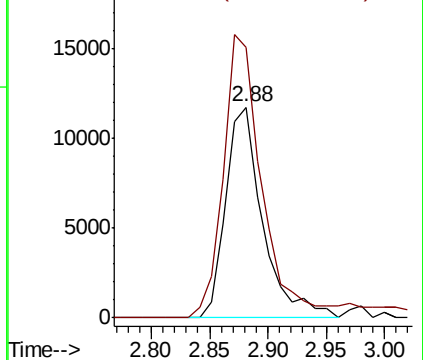
#8

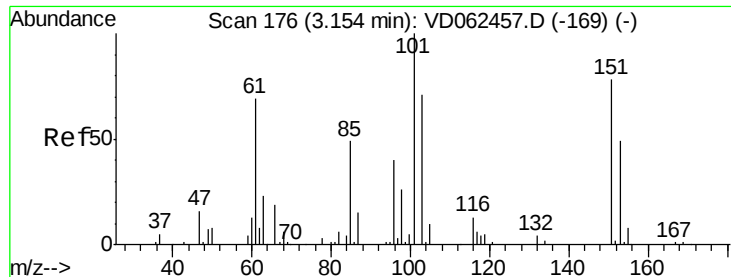
Diethyl Ether
Concen: 15.395 ug/l
RT: 2.88 min Scan# 148
Delta R.T. 0.00 min
Lab File: VD062477.D
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Tgt Ion: 74 Resp: 25876
Ion Ratio Lower Upper
74 100
45 128.2 56.9 170.7



Abundance Ion 74.00 (73.70 to 74.70): VDC
Ion 45.05 (44.75 to 45.75): VDC





#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.421 ug/l

RT: 3.15 min Scan# 175

Delta R.T. -0.01 min

Lab File: VD062477.D

Acq: 21 May 2019 13:28

Instrument :

MSVOA_D

ClientSampleId :

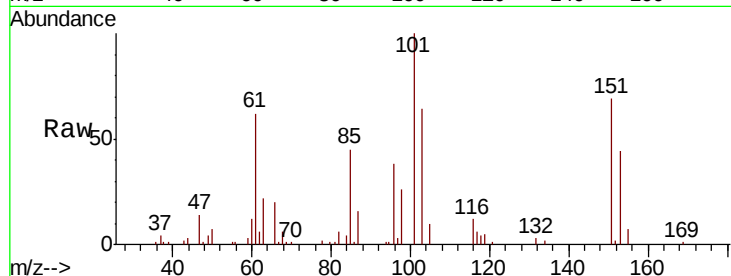
Tot Ion:101 Resp: 166201

Ion Ratio Lower Upper

101 100

85 45.1 32.4 48.6

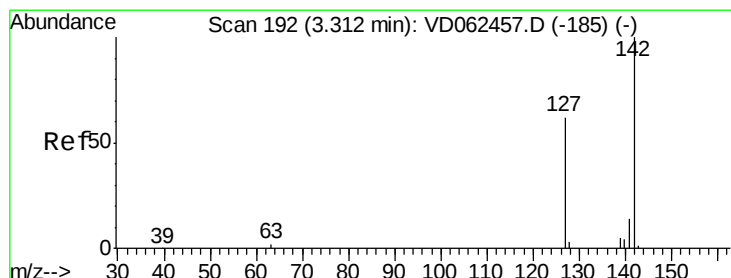
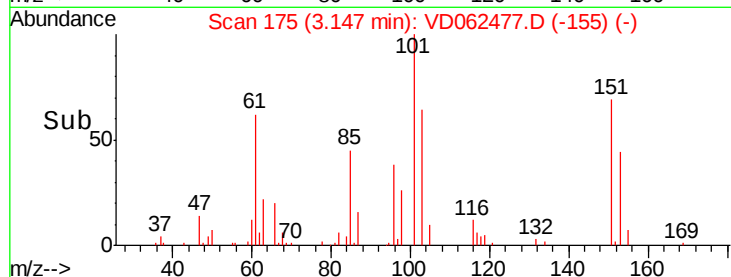
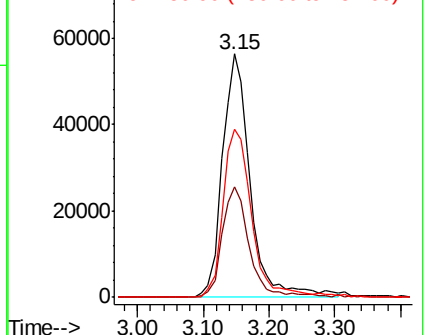
151 69.2 59.4 89.0



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): V

Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 22.240 ug/l

RT: 3.30 min Scan# 191

Delta R.T. -0.01 min

Lab File: VD062477.D

Acq: 21 May 2019 13:28

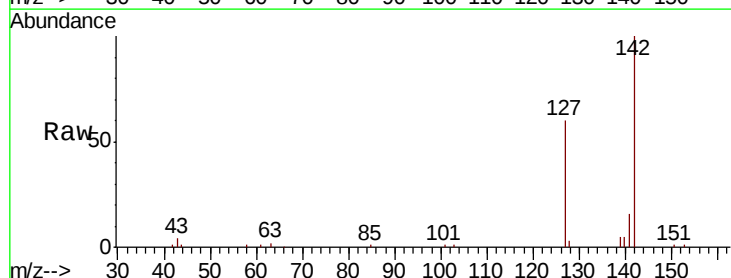
Tgt Ion:142 Resp: 229877

Ion Ratio Lower Upper

142 100

127 59.7 38.8 58.2#

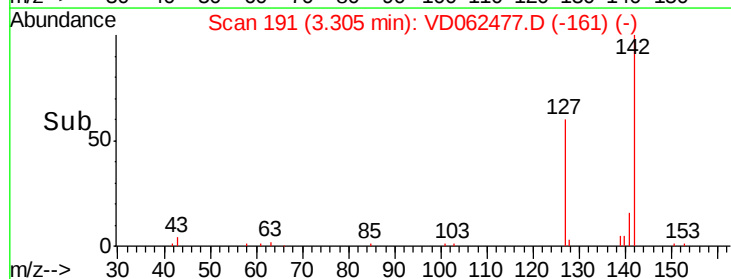
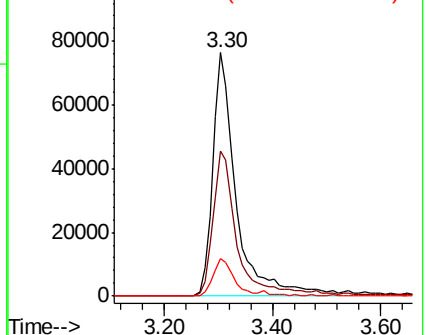
141 15.6 11.4 17.0

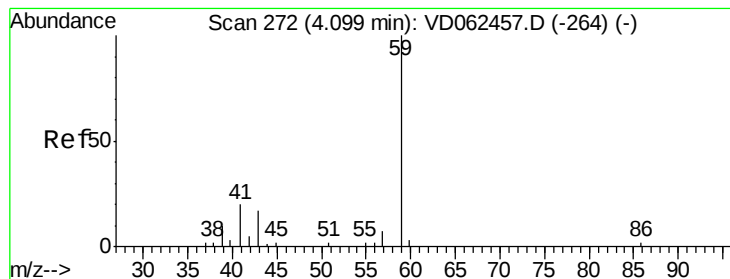


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



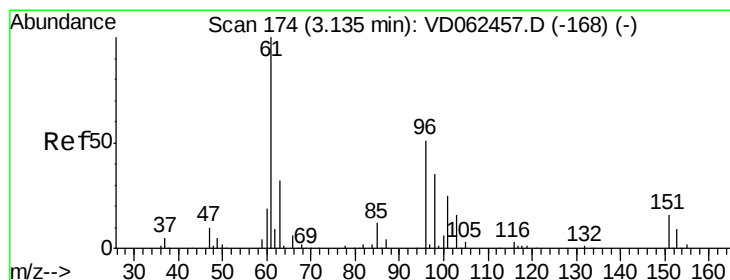
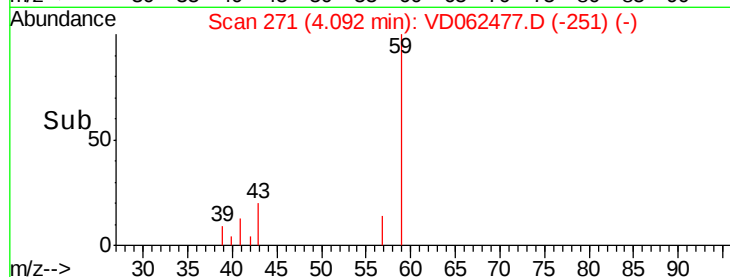
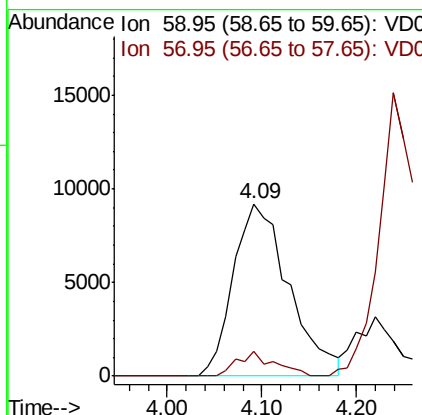
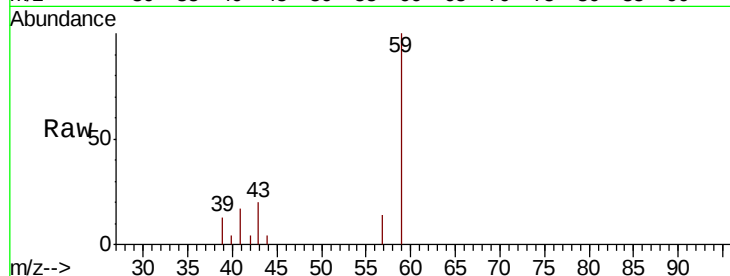


#11

Tert butyl alcohol
 Concen: 102.658 ug/l
 RT: 4.09 min Scan# 271
 Delta R.T. -0.01 min
 Lab File: VD062477.D
 Acq: 21 May 2019 13:28

Instrument :
 MSVOA_D
 ClientSampleId :

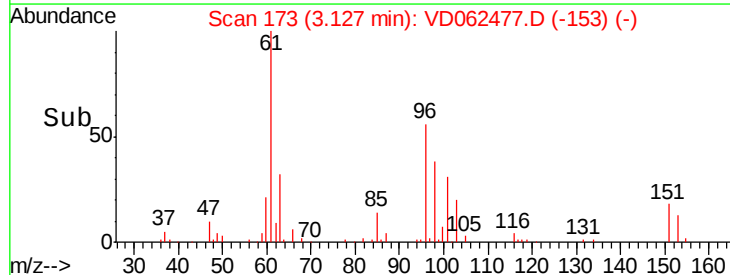
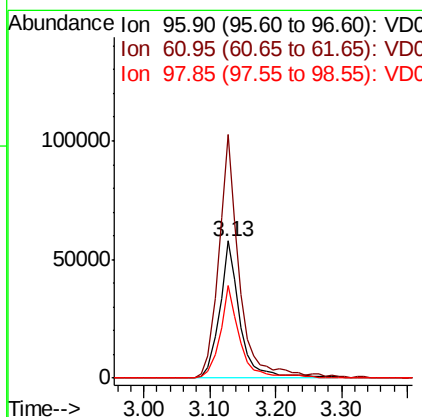
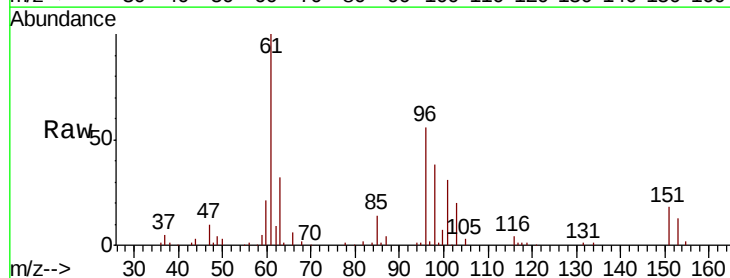
Tot Ion: 59 Resp: 37523
 Ion Ratio Lower Upper
 59 100
 57 14.1 6.9 10.3#

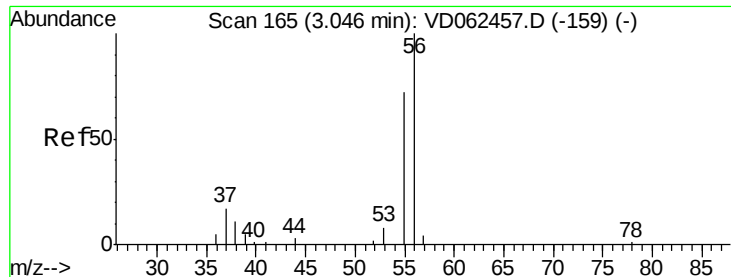


#12

1,1-Dichloroethene
 Concen: 22.718 ug/l
 RT: 3.13 min Scan# 173
 Delta R.T. -0.01 min
 Lab File: VD062477.D
 Acq: 21 May 2019 13:28

Tgt Ion: 96 Resp: 124460
 Ion Ratio Lower Upper
 96 100
 61 177.6 129.8 194.8
 98 67.2 51.2 76.8





#13

Acrolein

Concen: 77.663 ug/l

RT: 3.04 min Scan# 164

Delta R.T. -0.01 min

Lab File: VD062477.D

Acq: 21 May 2019 13:28

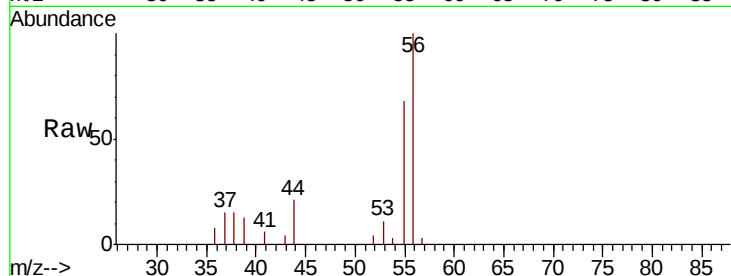
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 23574

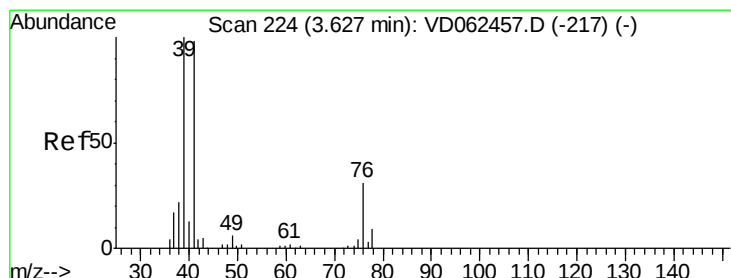
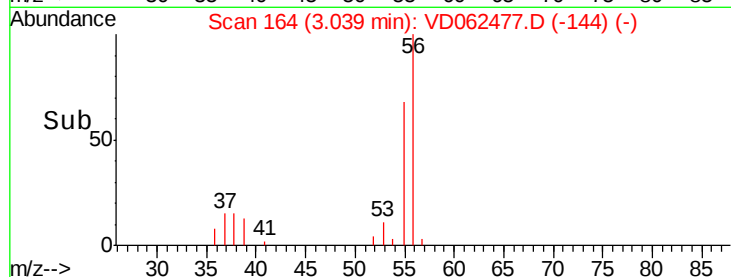
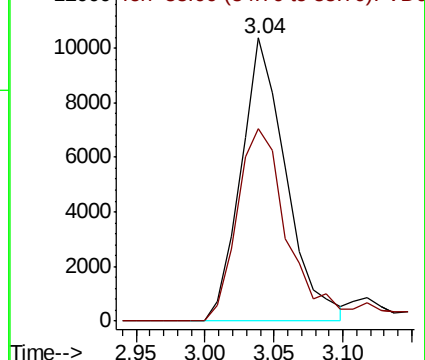
Ion Ratio Lower Upper

56 100

55 68.2 51.4 77.2



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 22.110 ug/l

RT: 3.62 min Scan# 223

Delta R.T. -0.01 min

Lab File: VD062477.D

Acq: 21 May 2019 13:28

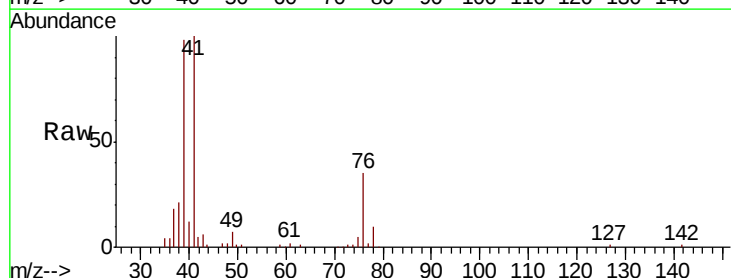
Tgt Ion: 41 Resp: 178606

Ion Ratio Lower Upper

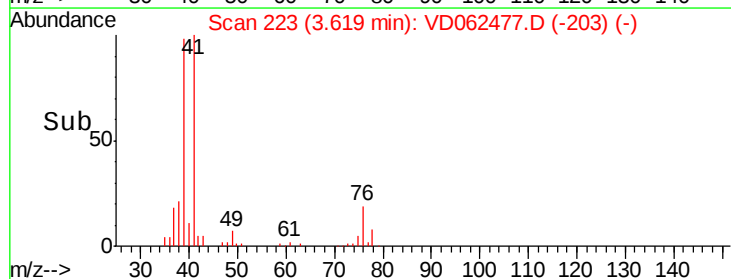
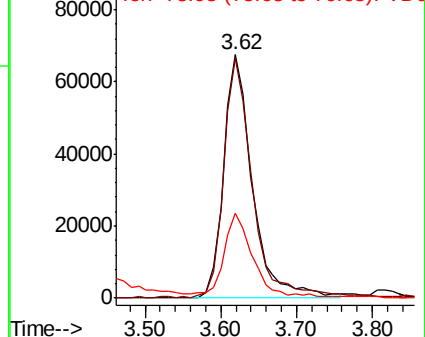
41 100

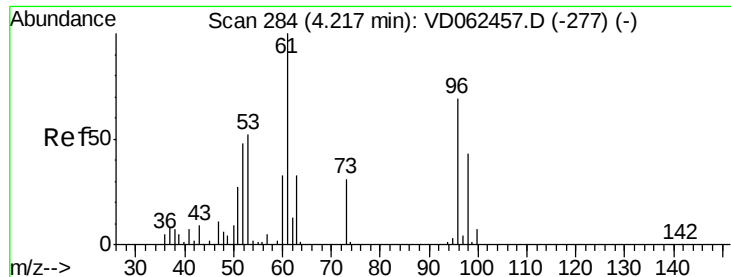
39 98.4 60.5 90.7#

76 34.7 31.8 47.8



Abundance Ion 41.05 (40.75 to 41.75): VDC
Ion 38.95 (38.65 to 39.65): VDC
Ion 75.95 (75.65 to 76.65): VDC

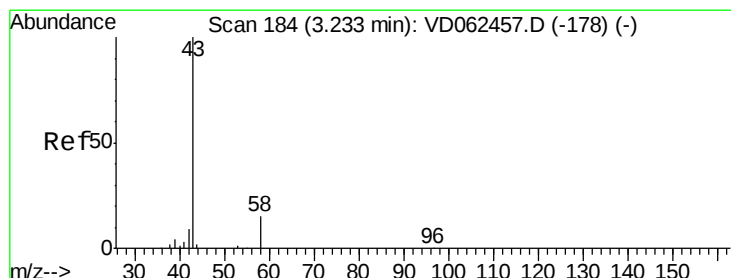
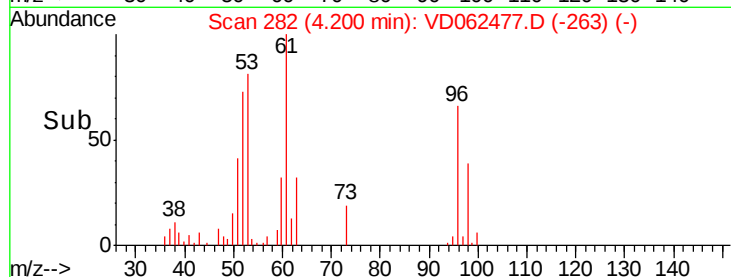
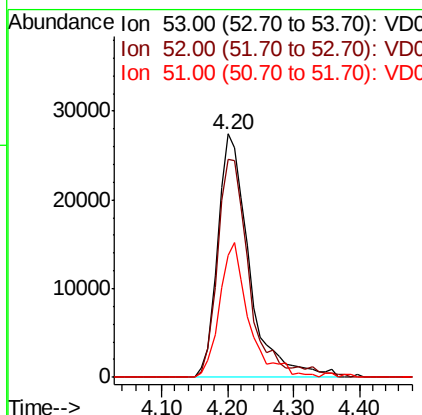
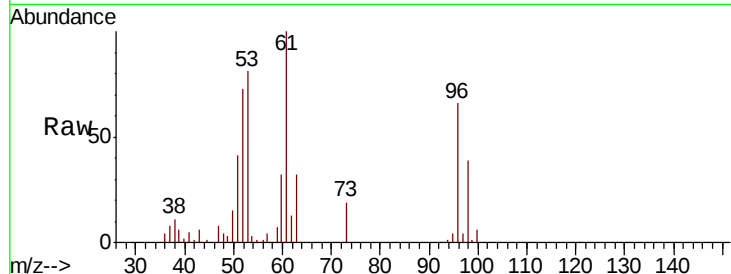




#15
 Acrylonitrile
 Concen: 109.363 ug/l
 RT: 4.20 min Scan# 282
 Delta R.T. -0.02 min
 Lab File: VD062477.D
 Acq: 21 May 2019 13:28

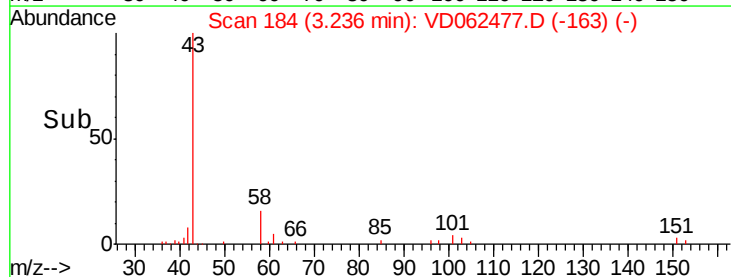
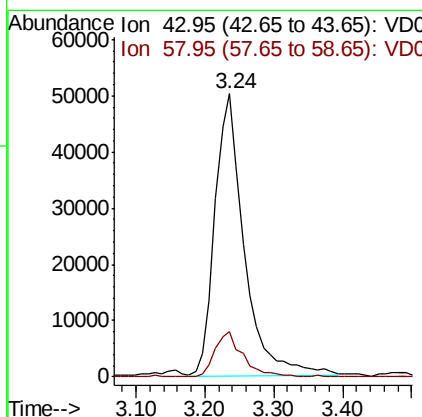
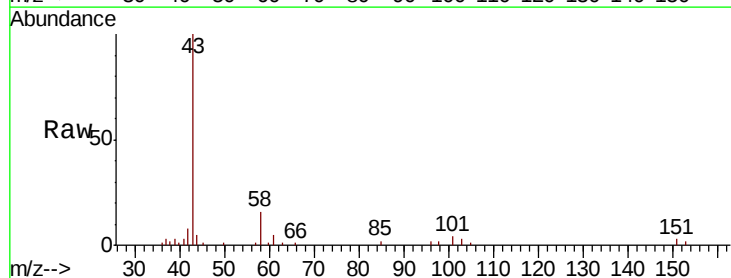
Instrument :
 MSVOA_D
 ClientSampled :

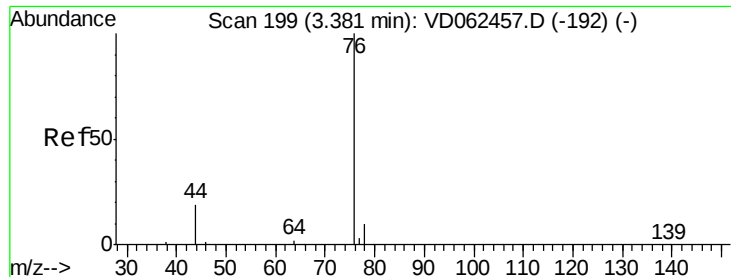
Tot Ion: 53 Resp: 91598
 Ion Ratio Lower Upper
 53 100
 52 86.2 65.0 97.4
 51 48.4 32.6 48.8



#16
 Acetone
 Concen: 103.860 ug/l
 RT: 3.24 min Scan# 184
 Delta R.T. 0.00 min
 Lab File: VD062477.D
 Acq: 21 May 2019 13:28

Tgt Ion: 43 Resp: 147380
 Ion Ratio Lower Upper
 43 100
 58 15.8 19.9 29.9#

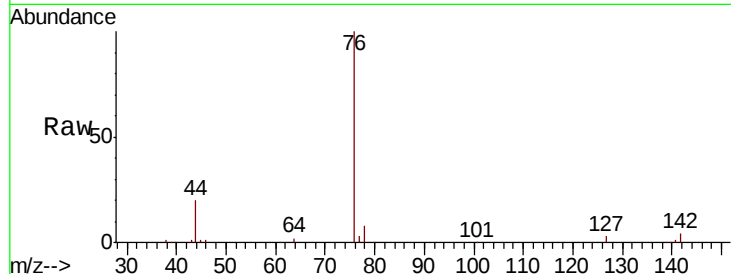




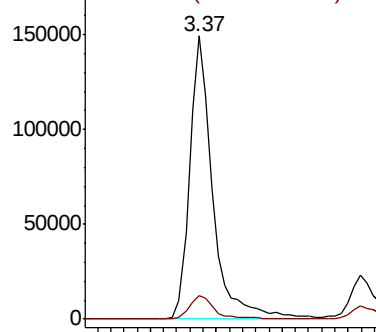
#17
Carbon Disulfide
Concen: 21.934 ug/l
RT: 3.37 min Scan# 198
Delta R.T. -0.01 min
Lab File: VD062477.D
Acq: 21 May 2019 13:28

Instrument :
MSVOA_D
ClientSampleId :

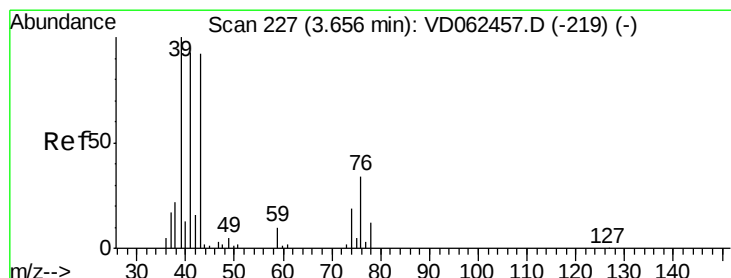
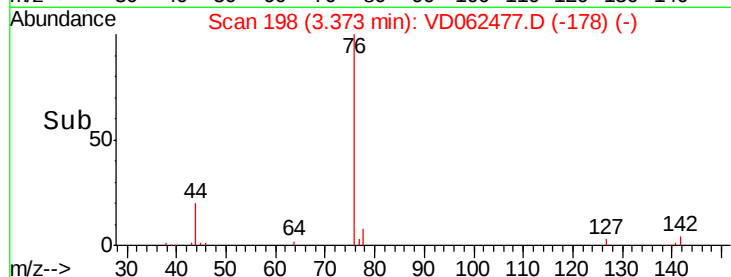
Tot Ion: 76 Resp: 363921
Ion Ratio Lower Upper
76 100
78 8.1 7.2 10.8



Abundance Ion 75.85 (75.55 to 76.55): VDC
Ion 77.85 (77.55 to 78.55): VDC

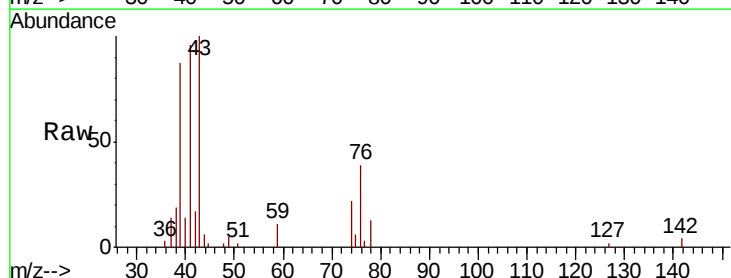


Time-->

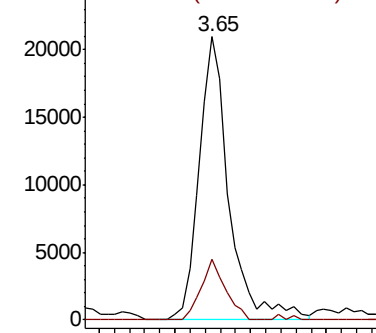


#18
Methyl Acetate
Concen: 23.199 ug/l
RT: 3.65 min Scan# 226
Delta R.T. -0.01 min
Lab File: VD062477.D
Acq: 21 May 2019 13:28

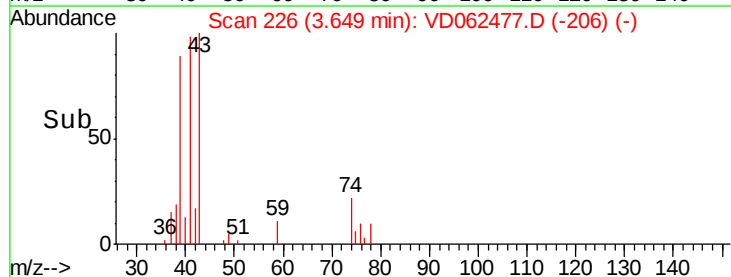
Tgt Ion: 43 Resp: 56806
Ion Ratio Lower Upper
43 100
74 21.6 18.0 27.0

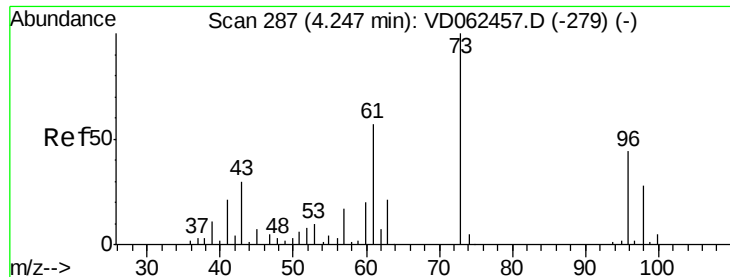


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 74.00 (73.70 to 74.70): VDC



Time-->

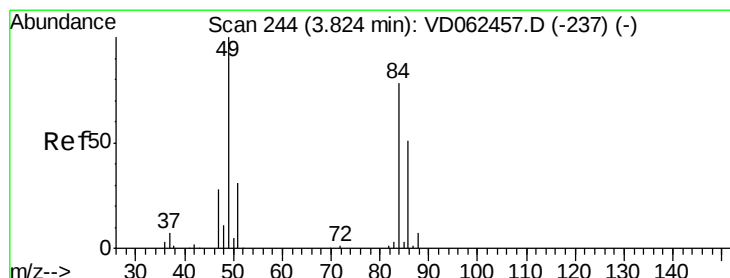
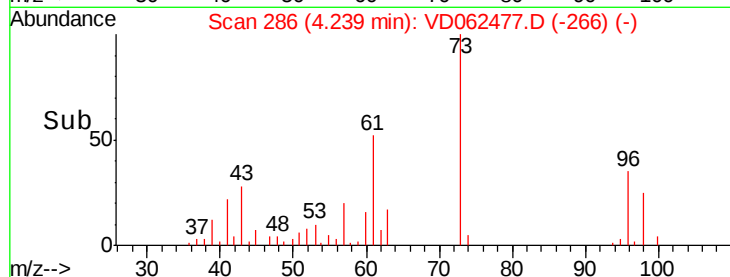
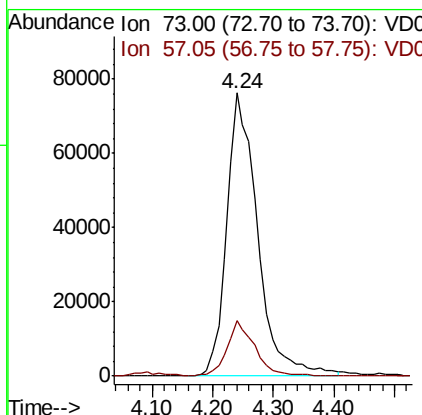
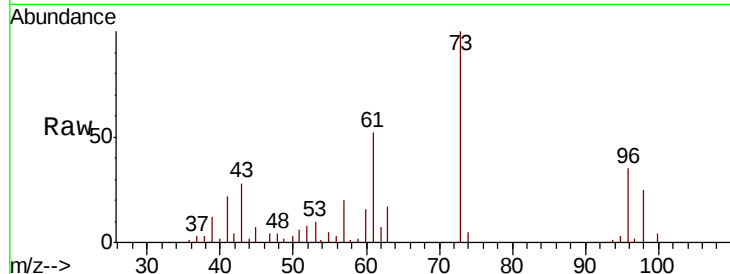




#19
Methvl tert-butvl Ether
Concen: 21.352 ug/l
RT: 4.24 min Scan# 286
Delta R.T. -0.01 min
Lab File: VD062477.D
Acq: 21 May 2019 13:28

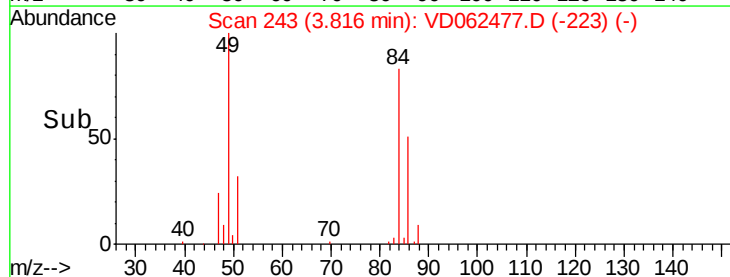
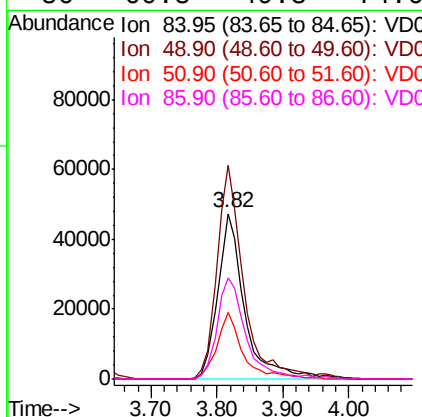
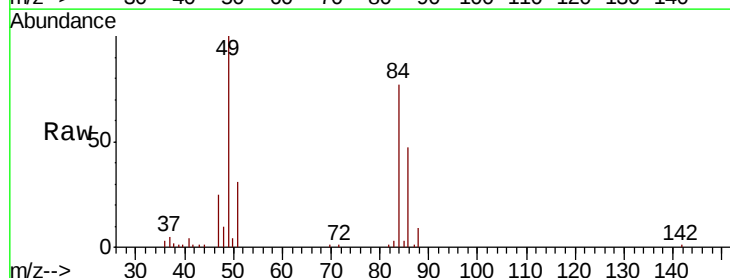
Instrument :
MSVOA_D
ClientSampled :

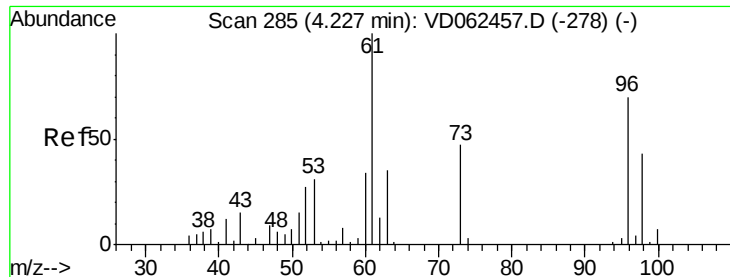
Tot Ion: 73 Resp: 270187
Ion Ratio Lower Upper
73 100
57 19.8 16.3 24.5



#20
Methylene Chloride
Concen: 18.179 ug/l
RT: 3.82 min Scan# 243
Delta R.T. -0.01 min
Lab File: VD062477.D
Acq: 21 May 2019 13:28

Tgt Ion: 84 Resp: 134164
Ion Ratio Lower Upper
84 100
49 129.1 94.0 141.0
51 40.1 29.0 43.4
86 60.8 49.8 74.6





#21

trans-1,2-Dichloroethene

Concen: 21.401 ug/l

RT: 4.23 min Scan# 285

Delta R.T. 0.00 min

Lab File: VD062477.D

Acq: 21 May 2019 13:28

Instrument :

MSVOA_D

ClientSampleId :

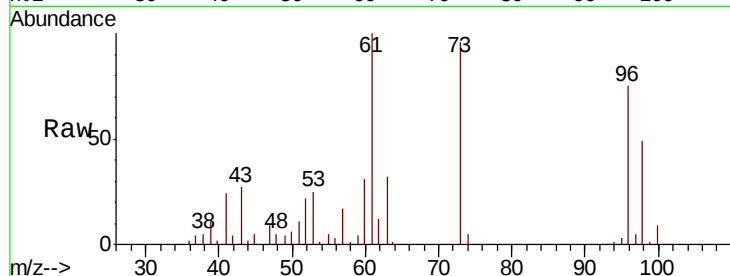
Tot Ion: 96 Resp: 137255

Ion Ratio Lower Upper

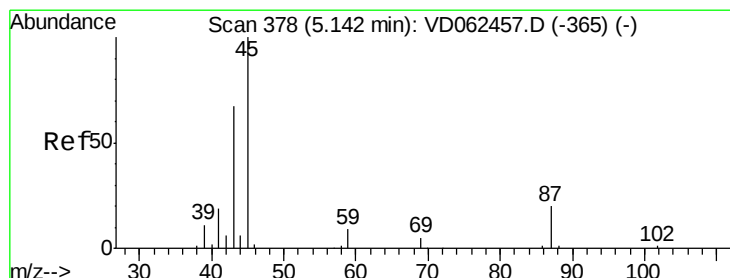
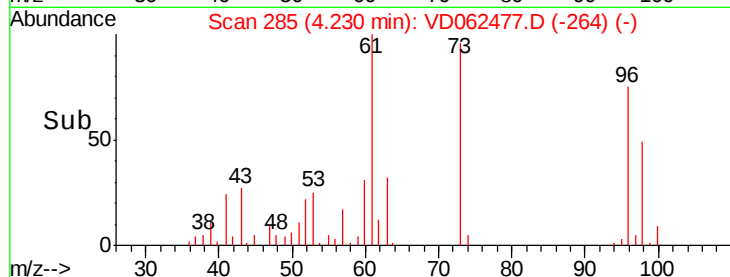
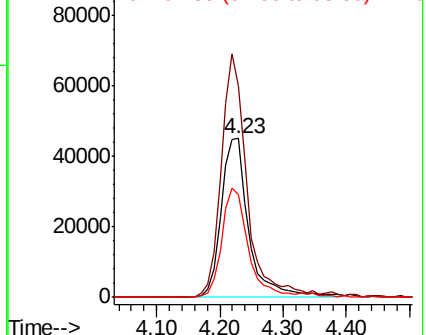
96 100

61 133.2 104.4 156.6

98 64.8 51.8 77.8



Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



#22

Diisopropyl ether

Concen: 22.989 ug/l

RT: 5.13 min Scan# 376

Delta R.T. -0.02 min

Lab File: VD062477.D

Acq: 21 May 2019 13:28

Tgt Ion: 45 Resp: 395275

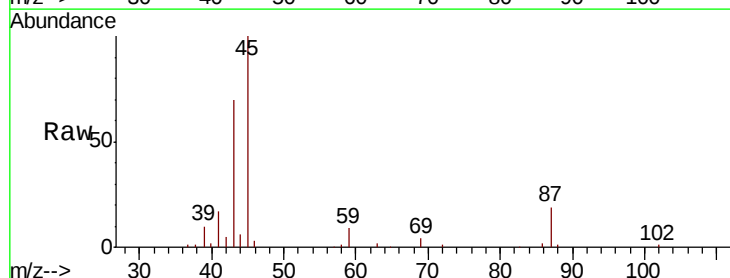
Ion Ratio Lower Upper

45 100

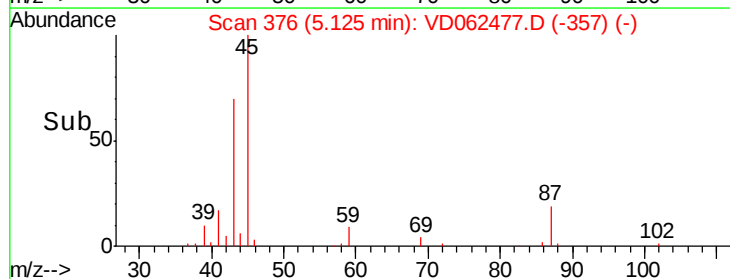
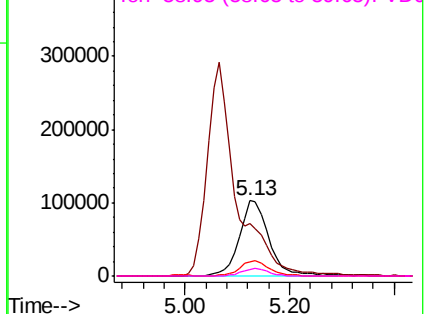
43 69.9 46.2 69.2#

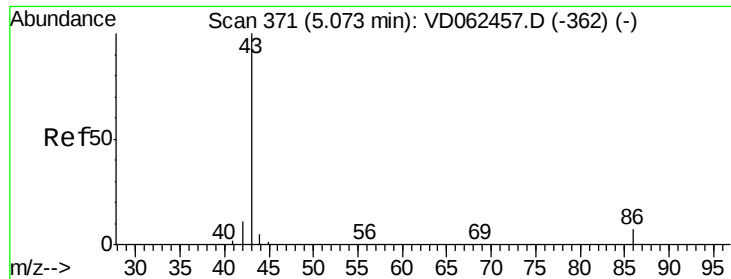
87 19.5 15.9 23.9

59 8.6 7.9 11.9



Abundance Ion 45.05 (44.75 to 45.75): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 87.00 (86.70 to 87.70): VDC
Ion 58.95 (58.65 to 59.65): VDC

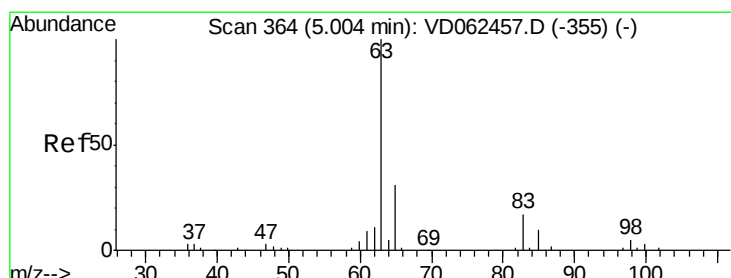
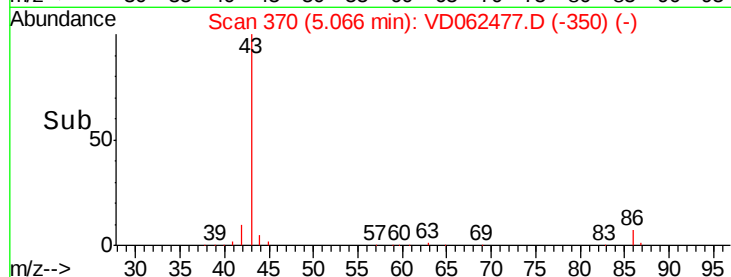
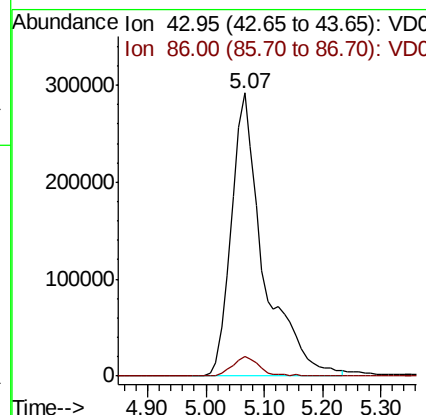
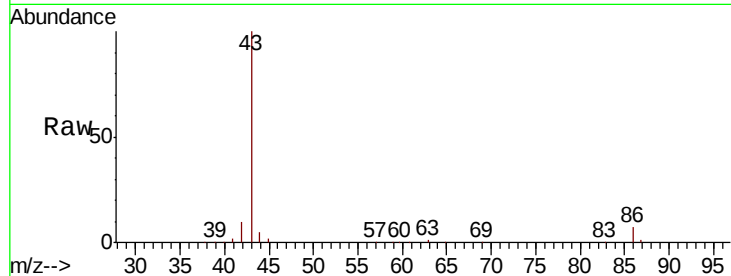




#23
 Vinyl Acetate
 Concen: 108.304 ug/l
 RT: 5.07 min Scan# 370
 Delta R.T. -0.01 min
 Lab File: VD062477.D
 Acq: 21 May 2019 13:28

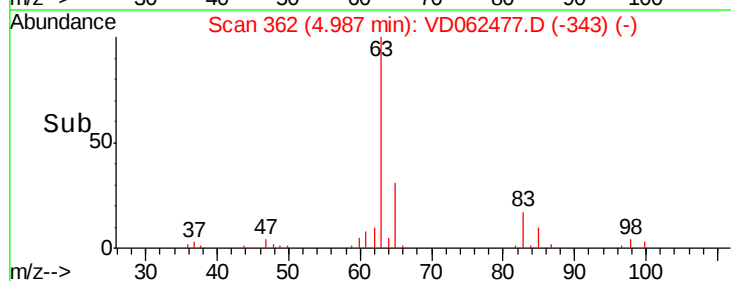
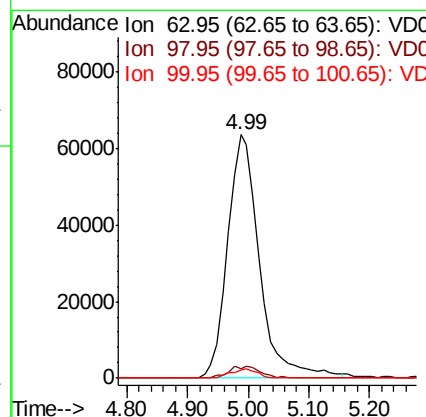
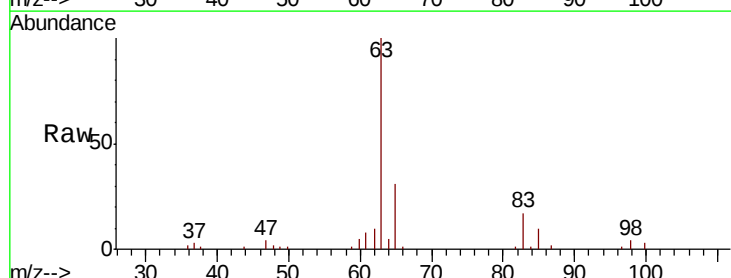
Instrument :
 MSVOA_D
 ClientSampleId :

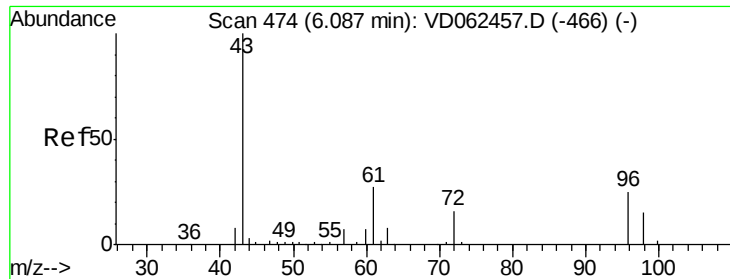
Tot Ion: 43 Resp: 1125235
 Ion Ratio Lower Upper
 43 100
 86 7.0 6.4 9.6



#24
 1,1-Dichloroethane
 Concen: 20.970 ug/l
 RT: 4.99 min Scan# 362
 Delta R.T. -0.02 min
 Lab File: VD062477.D
 Acq: 21 May 2019 13:28

Tgt Ion: 63 Resp: 232218
 Ion Ratio Lower Upper
 63 100
 98 4.1 2.8 8.4
 100 3.3 1.8 5.5





#25

2-Butanone

Concen: 111.284 ug/l

RT: 6.08 min Scan# 473

Delta R.T. -0.01 min

Lab File: VD062477.D

Acq: 21 May 2019 13:28

Instrument :

MSVOA_D

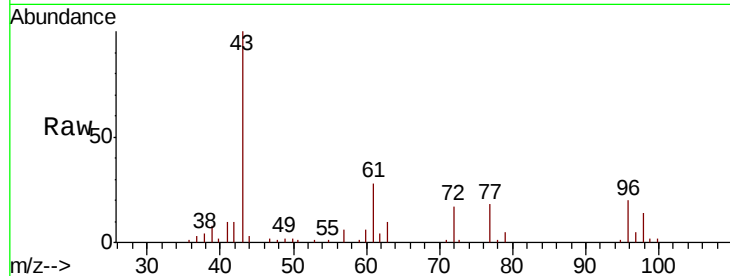
ClientSampleId :

Tot Ion: 43 Resp: 165164

Ion Ratio Lower Upper

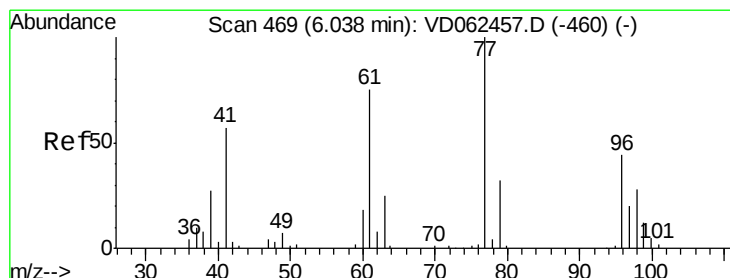
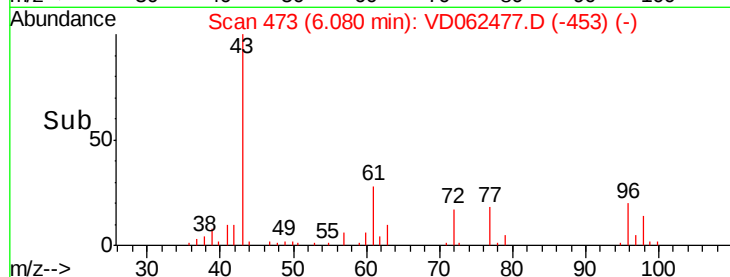
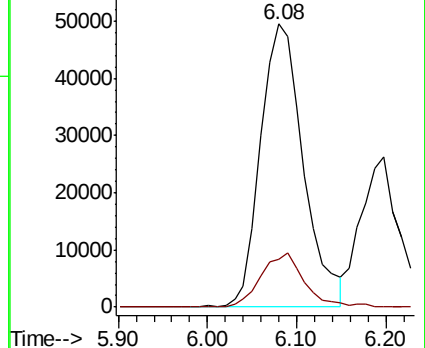
43 100

72 17.1 16.2 24.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 20.940 ug/l

RT: 6.03 min Scan# 468

Delta R.T. -0.01 min

Lab File: VD062477.D

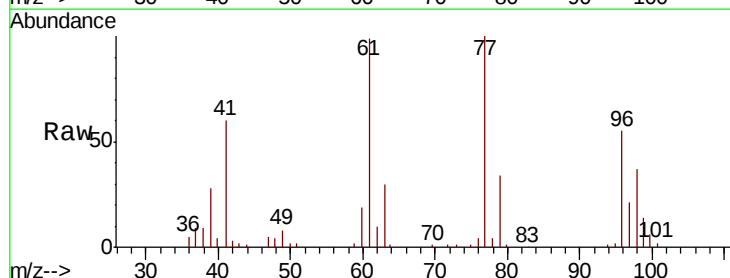
Acq: 21 May 2019 13:28

Tgt Ion: 77 Resp: 249956

Ion Ratio Lower Upper

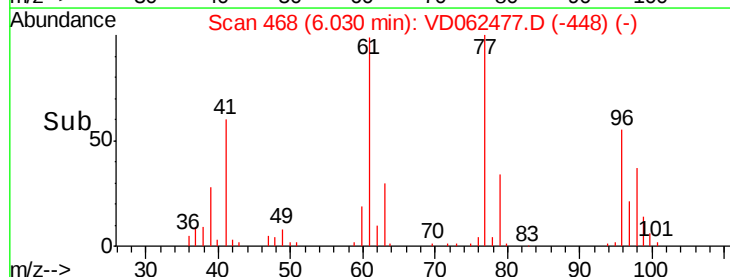
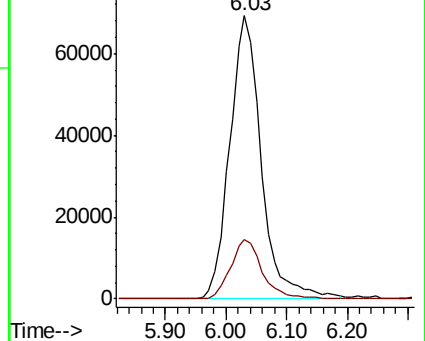
77 100

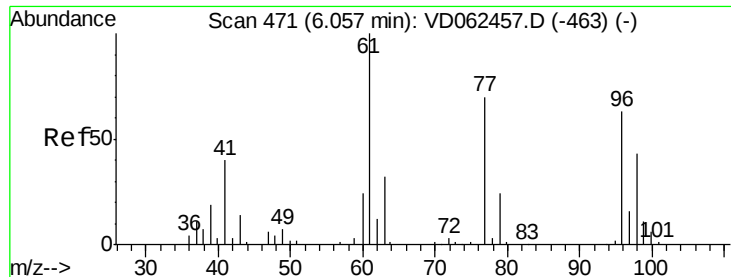
97 21.0 11.9 35.9



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





#27

cis-1,2-Dichloroethene

Concen: 21.985 ug/l

RT: 6.05 min Scan# 470

Delta R.T. -0.01 min

Lab File: VD062477.D

Acq: 21 May 2019 13:28

Instrument :

MSVOA_D

ClientSampled :

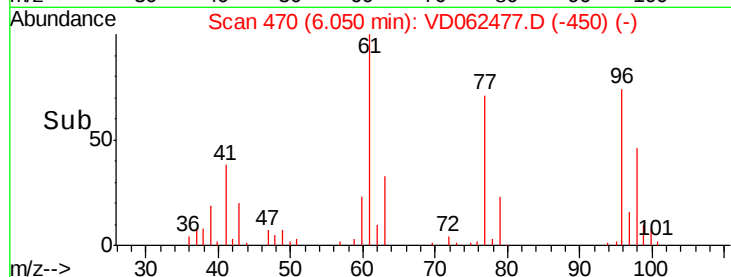
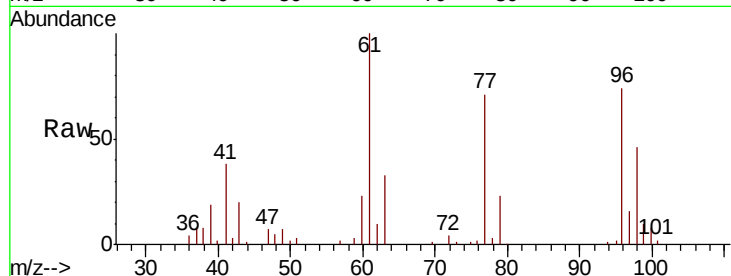
Tot Ion: 96 Resp: 152042

Ion Ratio Lower Upper

96 100

61 135.6 0.0 279.8

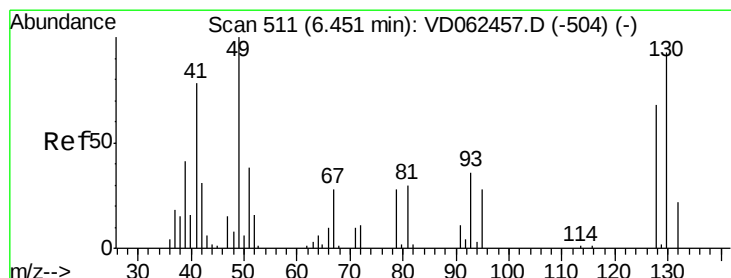
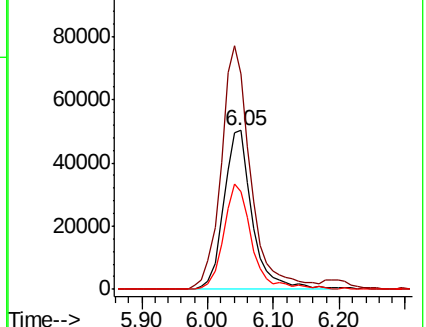
98 61.9 0.0 136.0



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



#28

Bromochloromethane

Concen: 20.259 ug/l

RT: 6.44 min Scan# 510

Delta R.T. -0.01 min

Lab File: VD062477.D

Acq: 21 May 2019 13:28

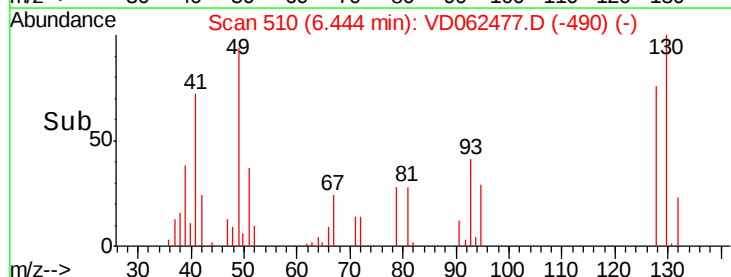
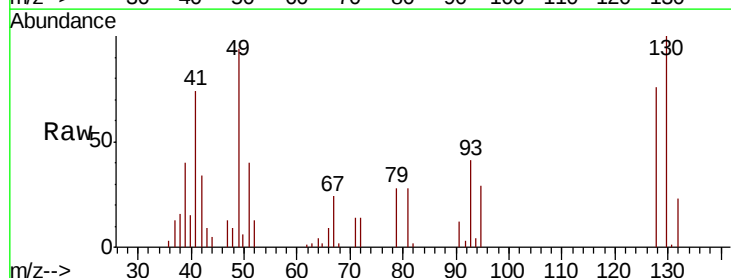
Tgt Ion: 49 Resp: 80519

Ion Ratio Lower Upper

49 100

129 0.0 0.0 6.6

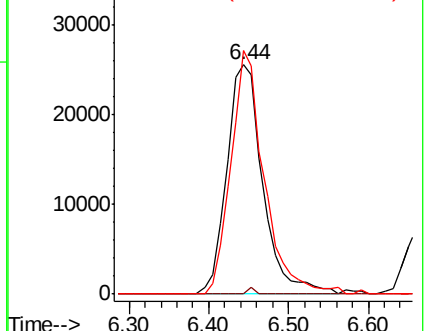
130 106.2 86.7 130.1

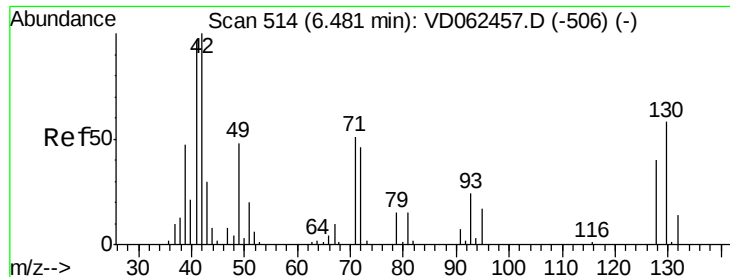


Abundance Ion 48.90 (48.60 to 49.60): VDC

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 110.607 ug/l

RT: 6.47 min Scan# 513

Delta R.T. -0.01 min

Lab File: VD062477.D

Acq: 21 May 2019 13:28

Instrument :

MSVOA_D

ClientSampleId :

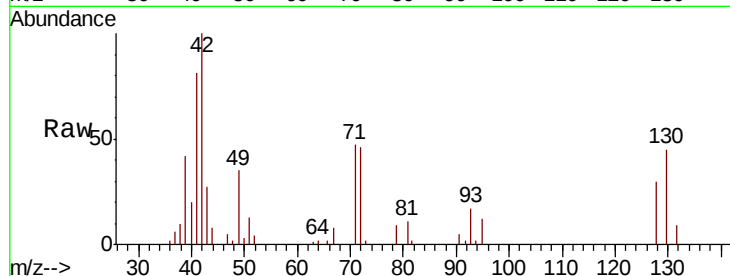
Tot Ion: 42 Resp: 78400

Ion Ratio Lower Upper

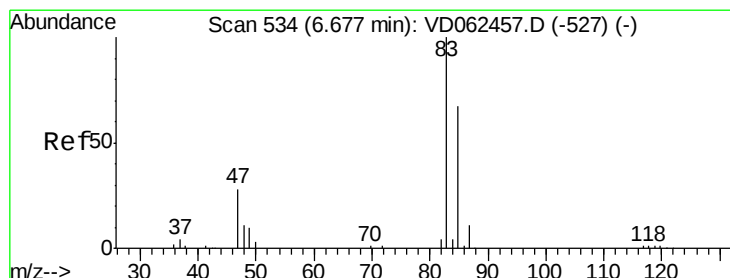
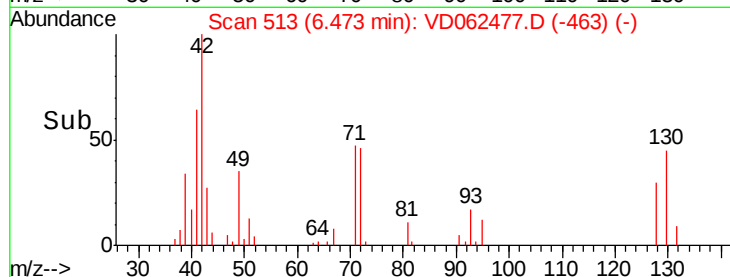
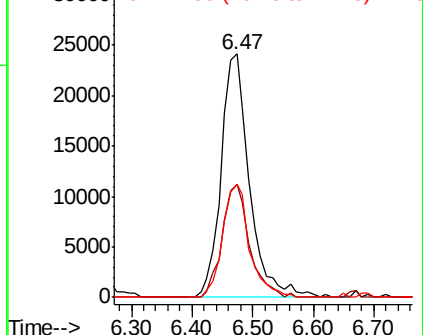
42 100

72 44.6 37.8 56.6

71 44.1 36.7 55.1



Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC



#30

Chloroform

Concen: 20.802 ug/l

RT: 6.67 min Scan# 533

Delta R.T. -0.01 min

Lab File: VD062477.D

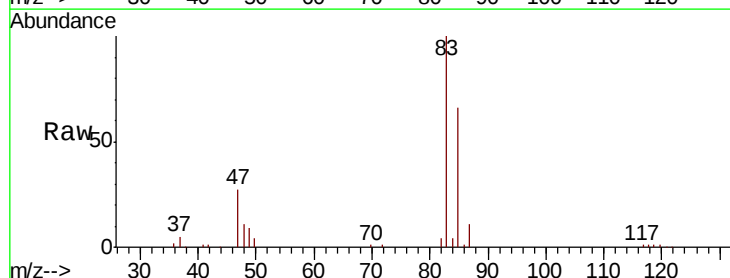
Acq: 21 May 2019 13:28

Tgt Ion: 83 Resp: 293678

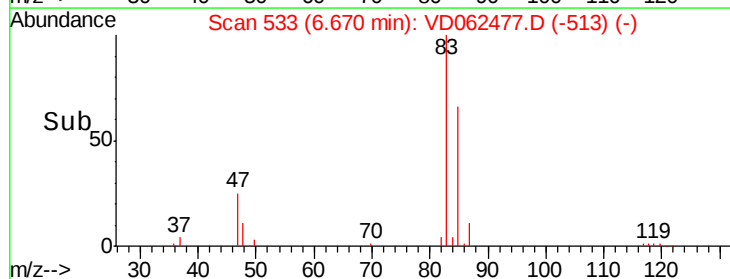
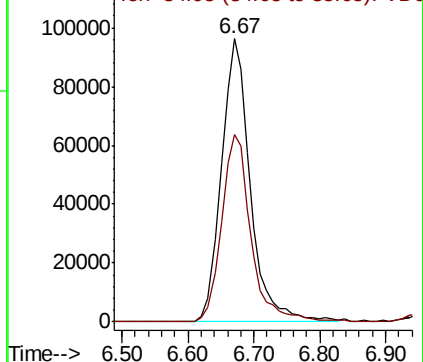
Ion Ratio Lower Upper

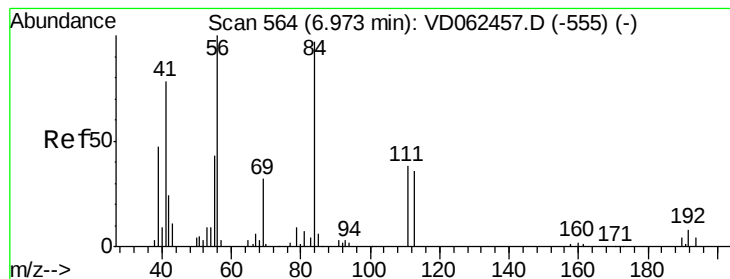
83 100

85 66.2 51.7 77.5



Abundance Ion 82.95 (82.65 to 83.65): VDC
Ion 84.95 (84.65 to 85.65): VDC





#31

Cyclohexane

Concen: 21.649 ug/l

RT: 6.97 min Scan# 563

Delta R.T. -0.01 min

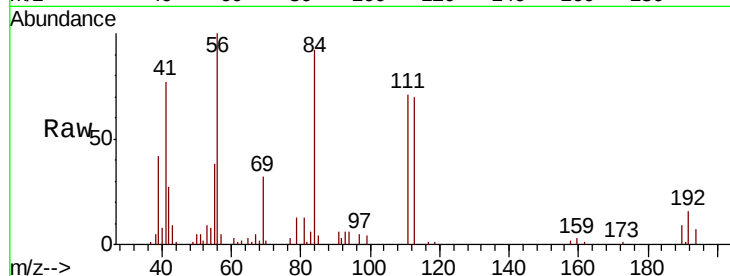
Lab File: VD062477.D

Acq: 21 May 2019 13:28

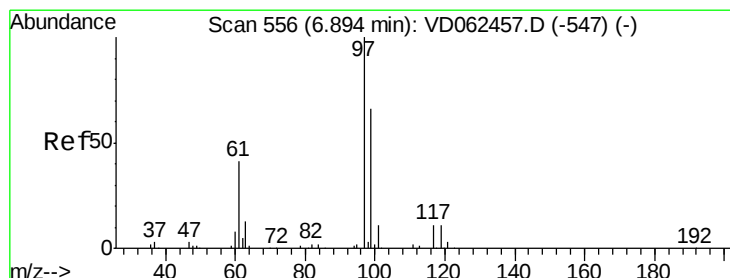
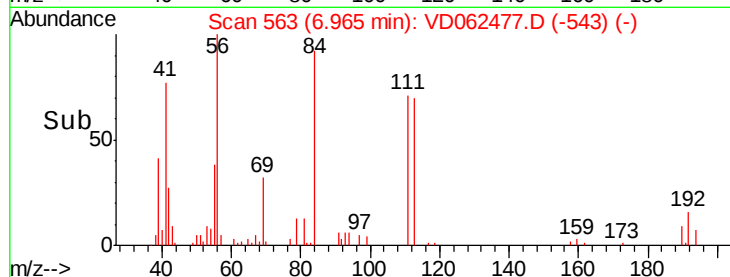
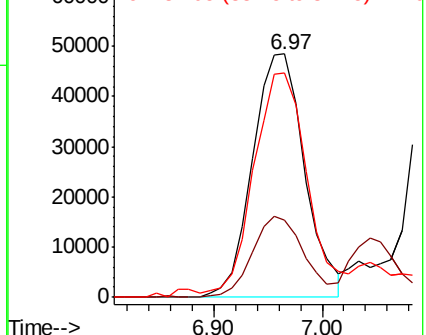
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 161865

Ion	Ratio	Lower	Upper
56	100		
69	32.0	25.8	38.6
84	92.3	72.2	108.4



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC



#32

1,1,1-Trichloroethane

Concen: 21.801 ug/l

RT: 6.88 min Scan# 554

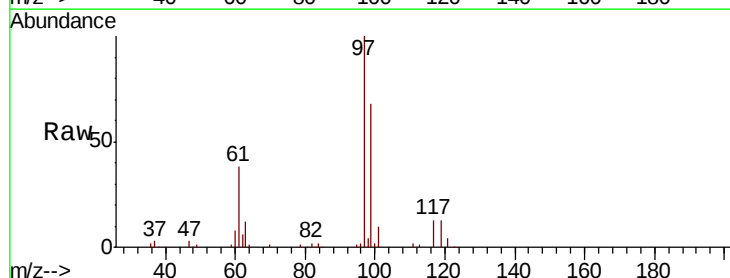
Delta R.T. -0.02 min

Lab File: VD062477.D

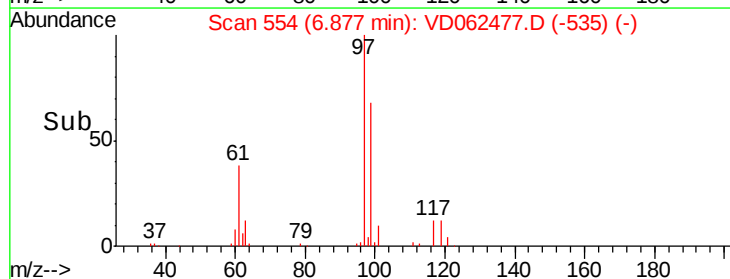
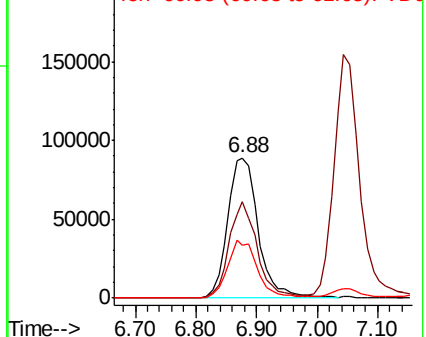
Acq: 21 May 2019 13:28

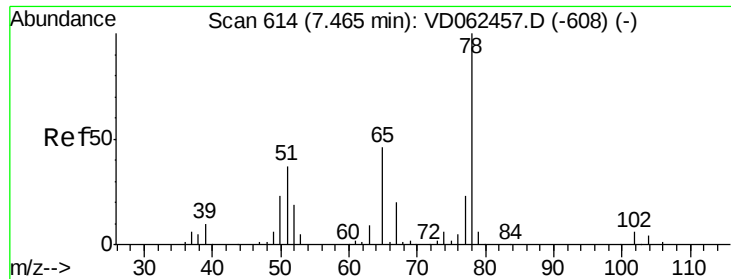
Tgt Ion: 97 Resp: 310736

Ion	Ratio	Lower	Upper
97	100		
99	68.4	52.2	78.2
61	38.0	32.4	48.6



Abundance Ion 96.85 (96.55 to 97.55): VDC
Ion 98.85 (98.55 to 99.55): VDC
Ion 60.95 (60.65 to 61.65): VDC





#33

1,2-Dichloroethane-d4

Concen: 54.873 ug/l

RT: 7.46 min Scan# 613

Delta R.T. -0.01 min

Lab File: VD062477.D

Acq: 21 May 2019 13:28

Instrument :

MSVOA_D

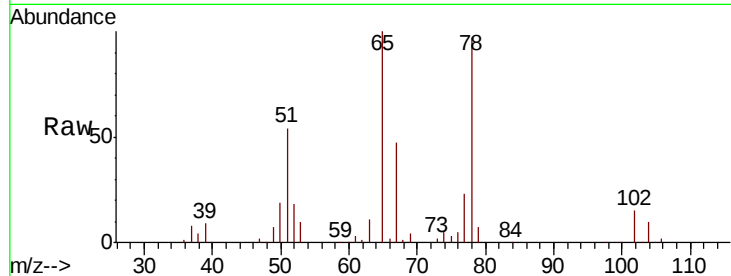
ClientSampleId :

Tot Ion: 65 Resp: 434524

Ion Ratio Lower Upper

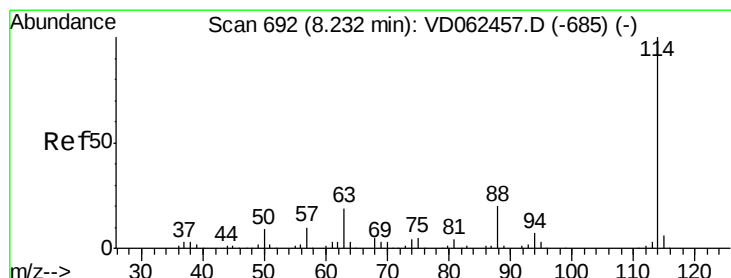
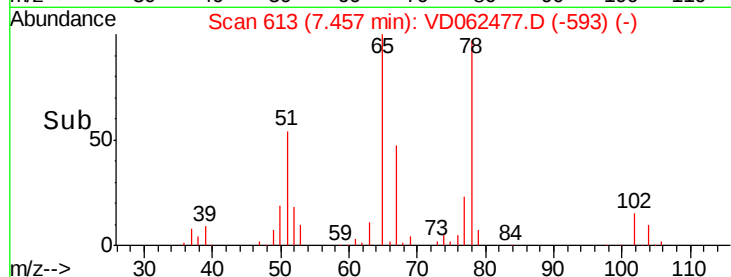
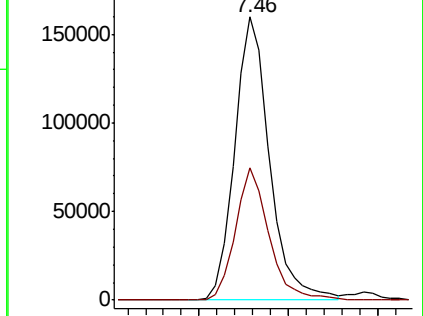
65 100

67 46.7 0.0 98.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 691

Delta R.T. -0.01 min

Lab File: VD062477.D

Acq: 21 May 2019 13:28

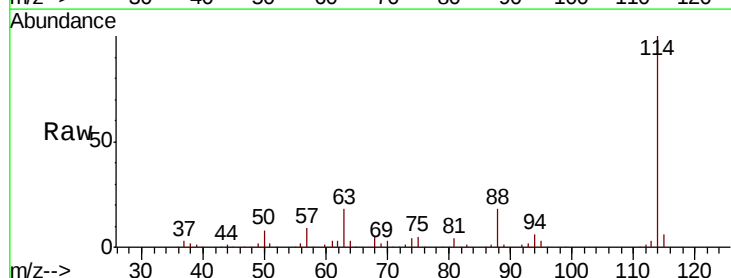
Tgt Ion: 114 Resp: 1014565

Ion Ratio Lower Upper

114 100

63 18.4 0.0 32.4

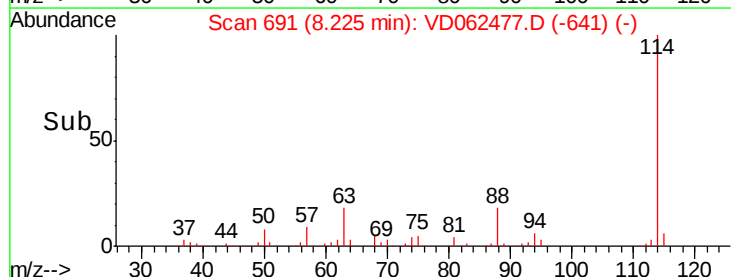
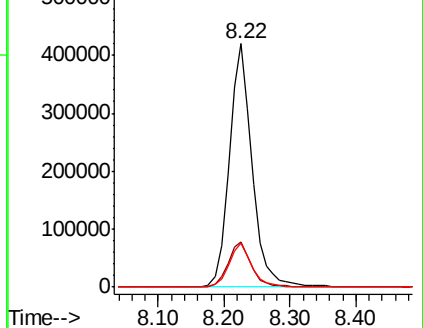
88 18.2 0.0 33.6

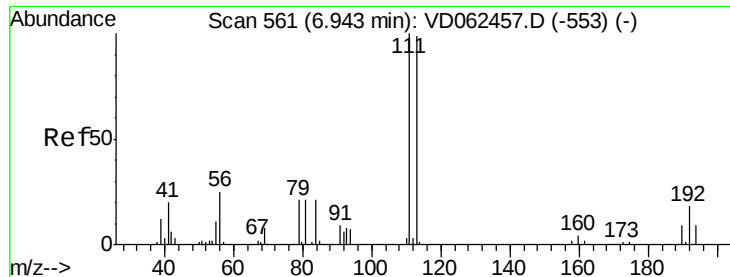


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 53.862 ug/l

RT: 6.93 min Scan# 559

Delta R.T. -0.02 min

Lab File: VD062477.D

Acq: 21 May 2019 13:28

Instrument :

MSVOA_D

ClientSampleId :

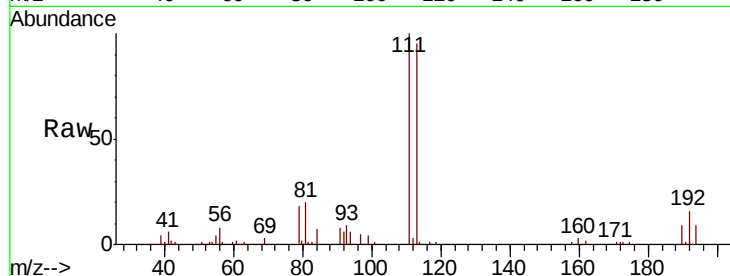
Tot Ion:113 Resp: 492974

Ion Ratio Lower Upper

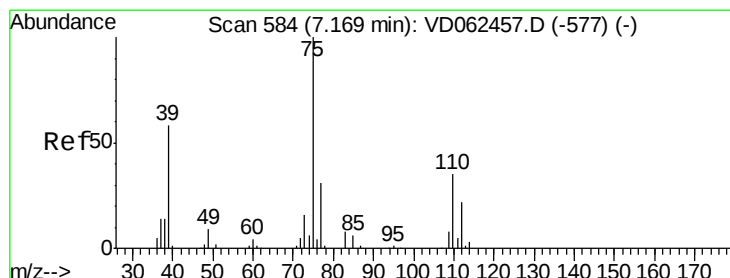
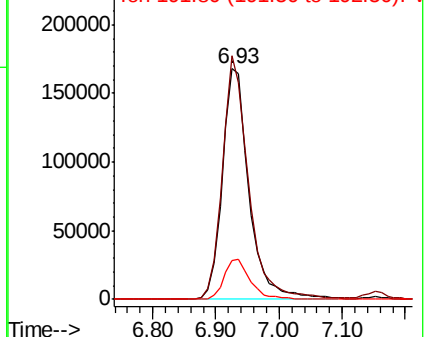
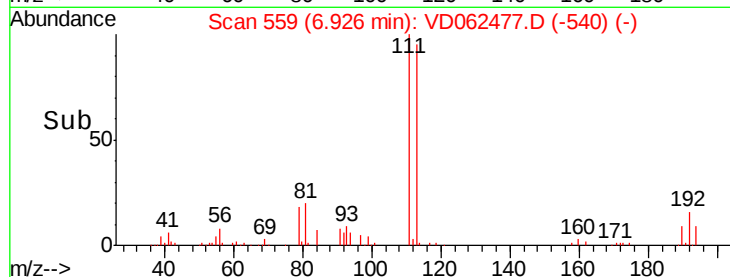
113 100

111 105.7 78.5 117.7

192 16.9 13.0 19.4



Abundance Ion 112.90 (112.60 to 113.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 22.046 ug/l

RT: 7.15 min Scan# 582

Delta R.T. -0.02 min

Lab File: VD062477.D

Acq: 21 May 2019 13:28

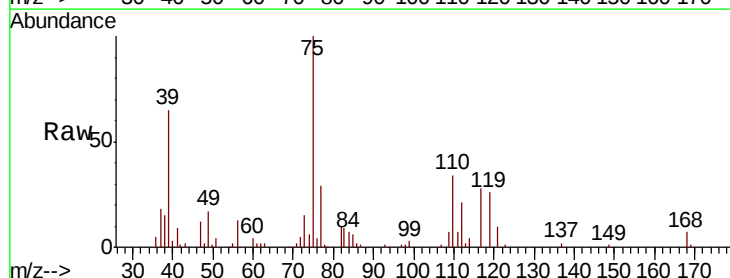
Tgt Ion: 75 Resp: 213847

Ion Ratio Lower Upper

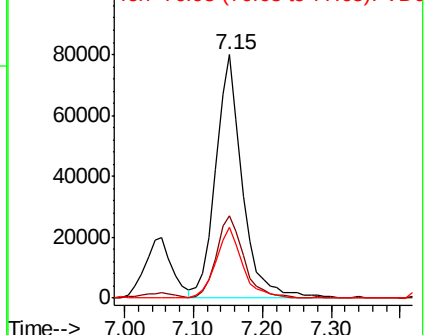
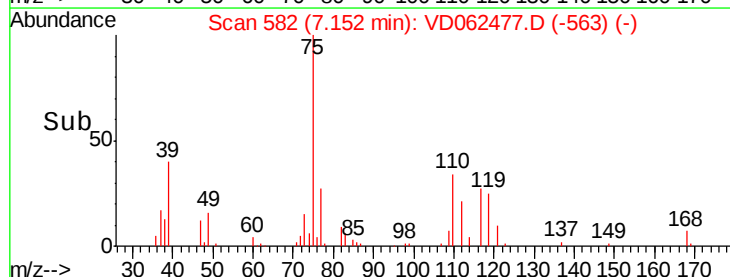
75 100

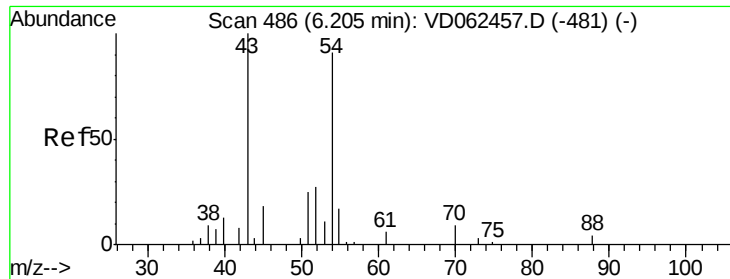
110 33.7 19.1 57.1

77 28.8 25.6 38.4



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 109.90 (109.60 to 110.60): V
Ion 76.95 (76.65 to 77.65): VDC

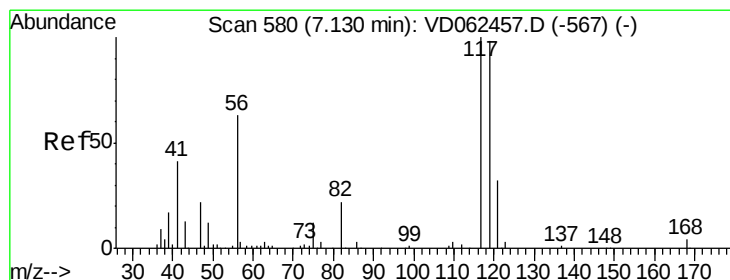
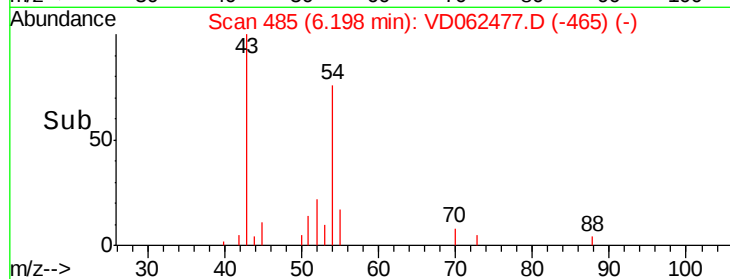
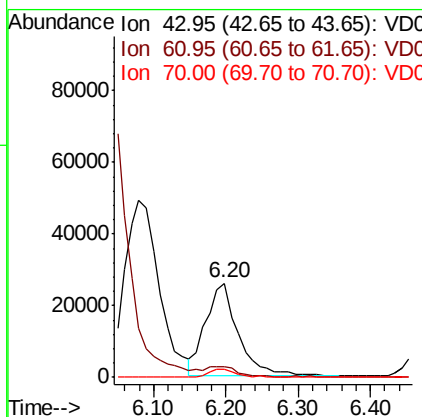
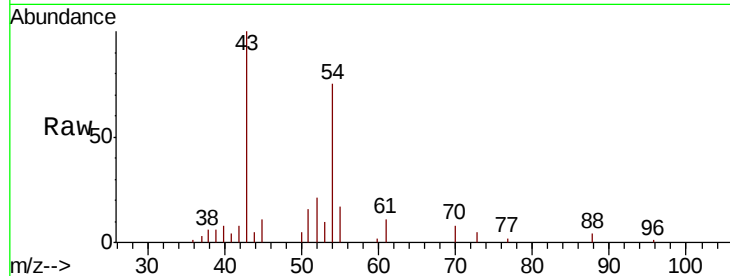




#37
Ethyl Acetate
Concen: 21.448 ug/l
RT: 6.20 min Scan# 485
Delta R.T. -0.01 min
Lab File: VD062477.D
Acq: 21 May 2019 13:28

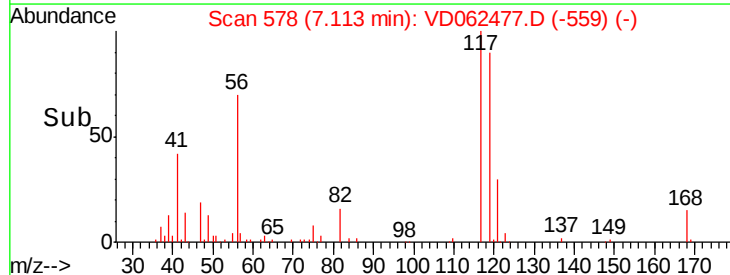
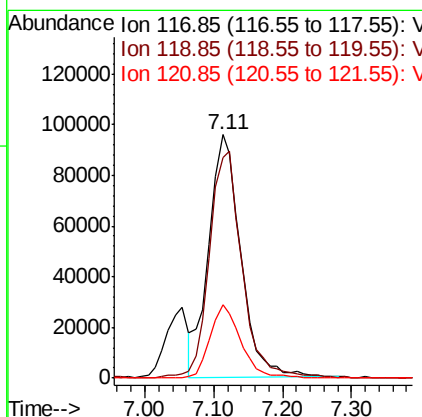
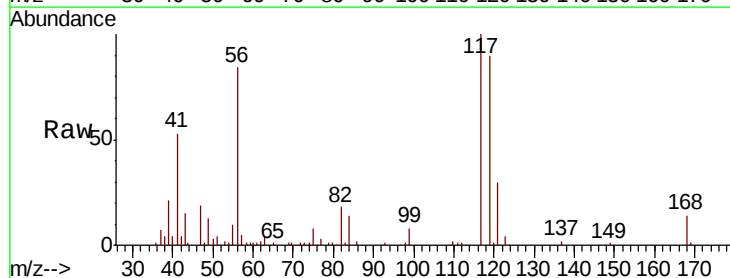
Instrument :
MSVOA_D
ClientSampled :

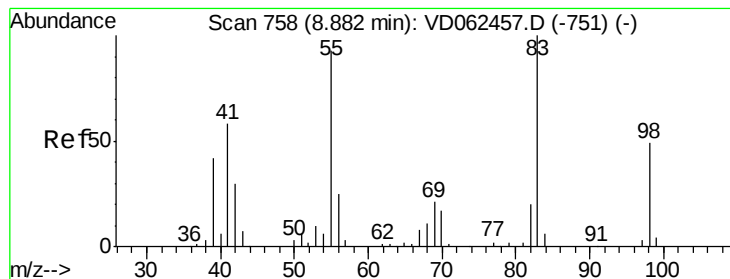
Tot Ion: 43 Resp: 80823
Ion Ratio Lower Upper
43 100
61 11.3 14.7 22.1#
70 8.2 7.8 11.6



#38
Carbon Tetrachloride
Concen: 21.459 ug/l
RT: 7.11 min Scan# 578
Delta R.T. -0.02 min
Lab File: VD062477.D
Acq: 21 May 2019 13:28

Tgt Ion: 117 Resp: 309351
Ion Ratio Lower Upper
117 100
119 90.4 75.8 113.8
121 30.2 25.9 38.9





#39

Methvlcvclohexane

Concen: 23.115 ug/l

RT: 8.86 min Scan# 756

Delta R.T. -0.02 min

Lab File: VD062477.D

Acq: 21 May 2019 13:28

Instrument :

MSVOA_D

ClientSampled :

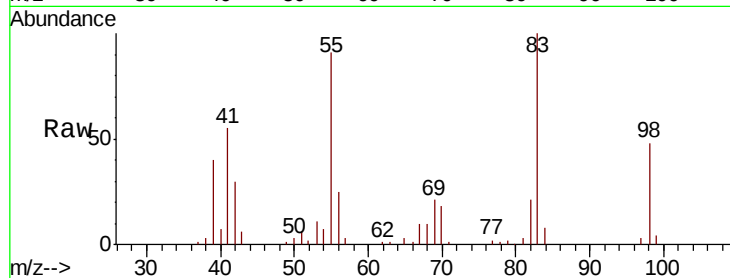
Tot Ion: 83 Resp: 184931

Ion Ratio Lower Upper

83 100

55 91.0 68.2 102.4

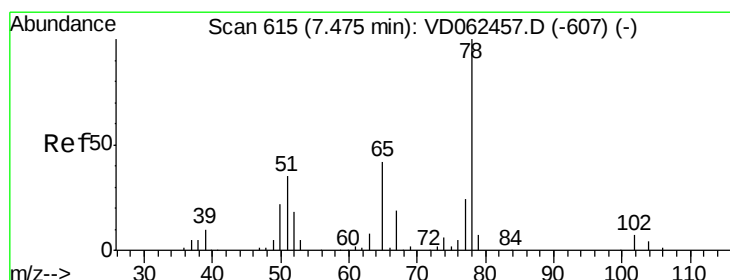
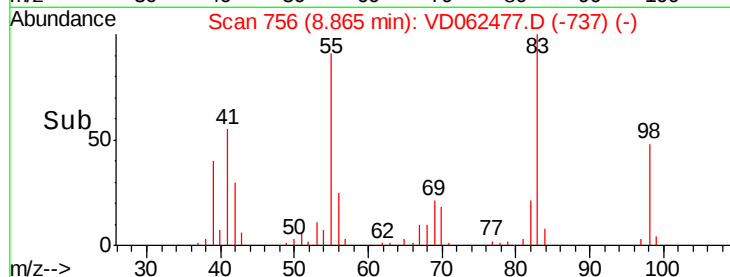
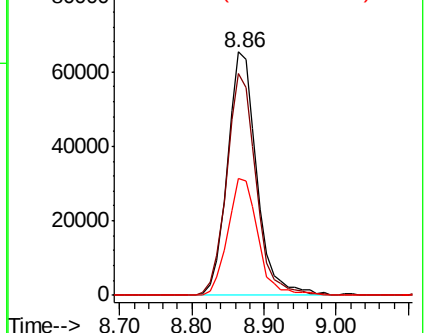
98 47.8 38.2 57.4



Abundance Ion 83.05 (82.75 to 83.75): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 98.05 (97.75 to 98.75): VDC



#40

Benzene

Concen: 22.421 ug/l

RT: 7.46 min Scan# 613

Delta R.T. -0.02 min

Lab File: VD062477.D

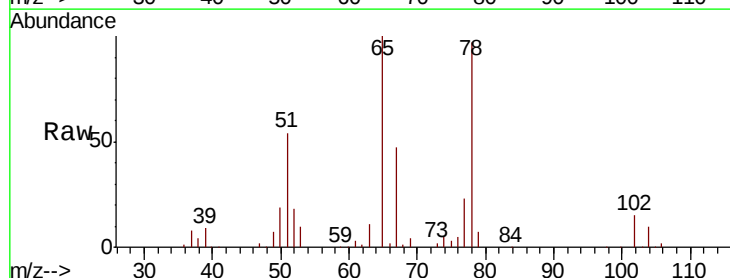
Acq: 21 May 2019 13:28

Tgt Ion: 78 Resp: 426590

Ion Ratio Lower Upper

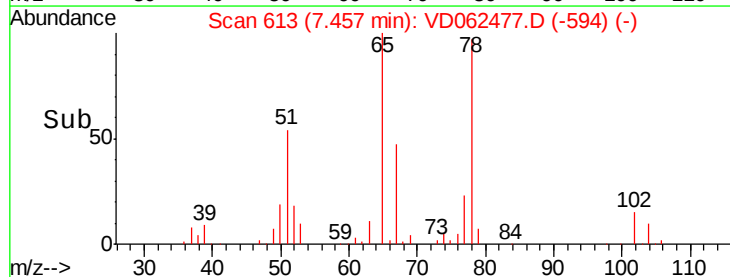
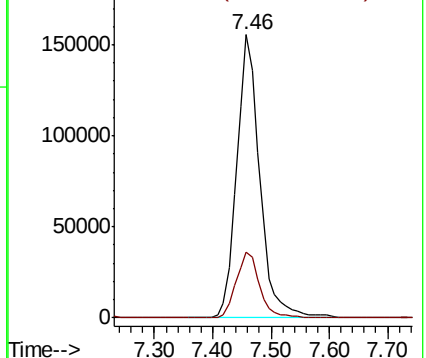
78 100

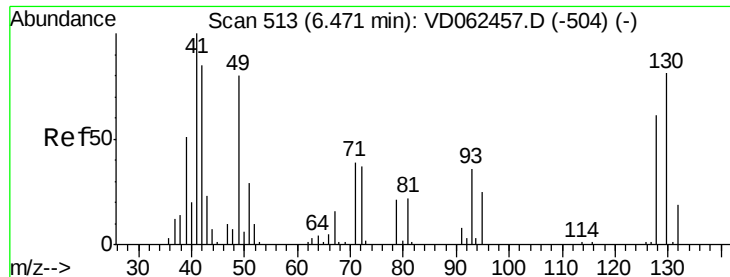
77 23.1 19.7 29.5



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC

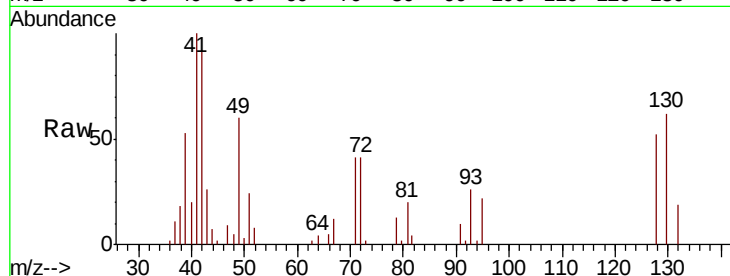




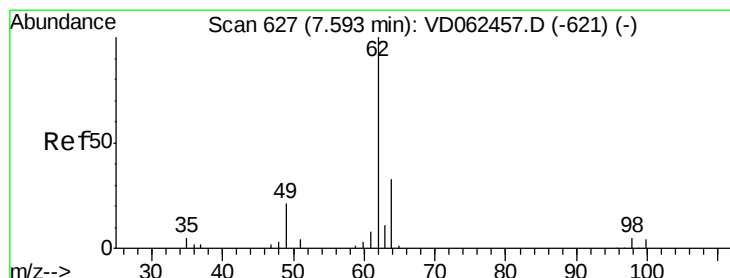
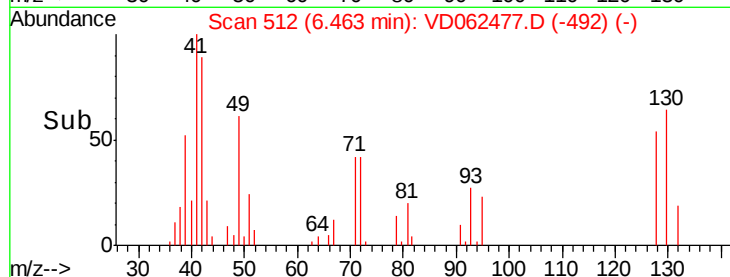
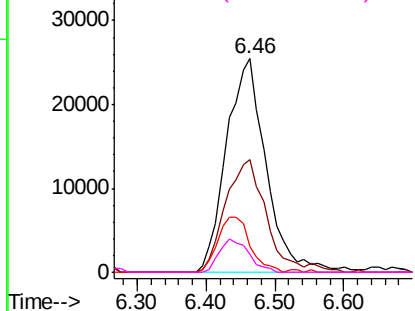
#41
Methacrylonitrile
Concen: 21.447 ug/l
RT: 6.46 min Scan# 512
Delta R.T. -0.01 min
Lab File: VD062477.D
Acq: 21 May 2019 13:28

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 41 Resp: 101501
Ion Ratio Lower Upper
41 100
39 52.9 34.1 51.1#
67 12.2 23.8 35.6#
52 8.5 8.8 13.2#

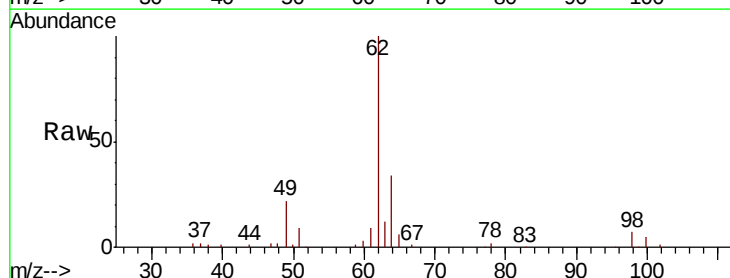


Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 38.95 (38.65 to 39.65): VDC
Ion 67.00 (66.70 to 67.70): VDC
Ion 52.00 (51.70 to 52.70): VDC

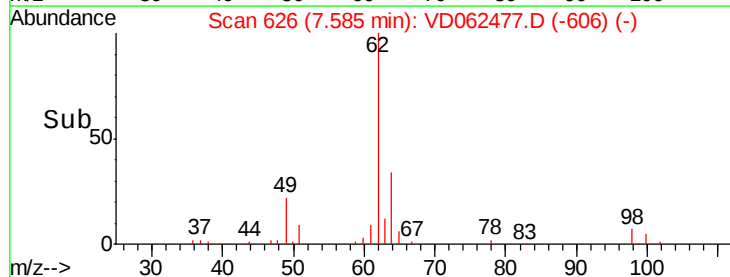
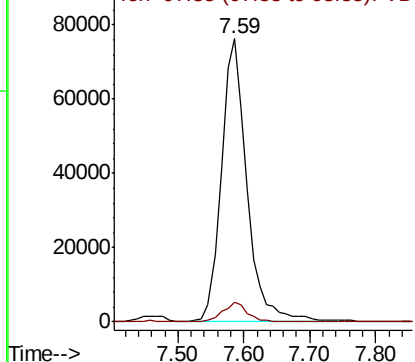


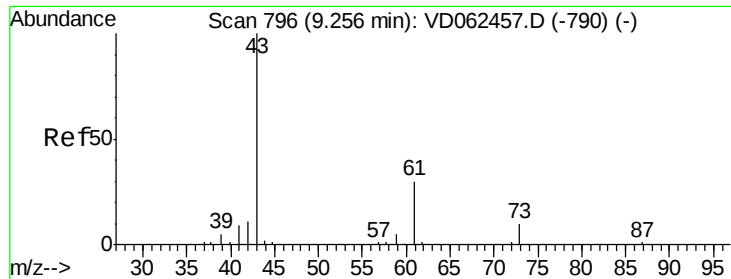
#42
1,2-Dichloroethane
Concen: 20.572 ug/l
RT: 7.59 min Scan# 626
Delta R.T. -0.01 min
Lab File: VD062477.D
Acq: 21 May 2019 13:28

Tgt Ion: 62 Resp: 207264
Ion Ratio Lower Upper
62 100
98 6.9 0.0 17.8



Abundance Ion 61.95 (61.65 to 62.65): VDC
Ion 97.85 (97.55 to 98.55): VDC





#43

Isopropyl Acetate

Concen: 21.230 ug/l

RT: 9.25 min Scan# 795

Delta R.T. -0.01 min

Lab File: VD062477.D

Acq: 21 May 2019 13:28

Instrument :

MSVOA_D

ClientSampled :

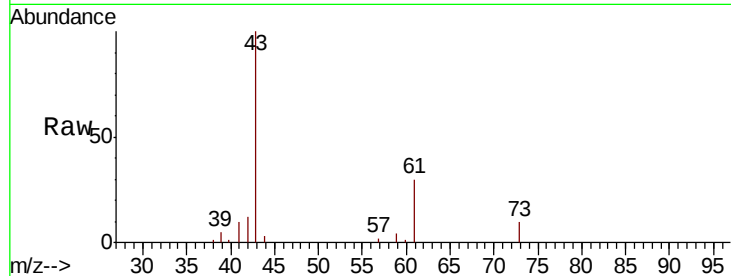
Tot Ion: 43 Resp: 106129

Ion Ratio Lower Upper

43 100

61 30.0 25.1 37.7

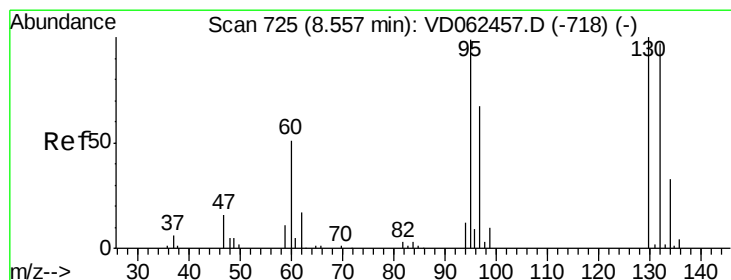
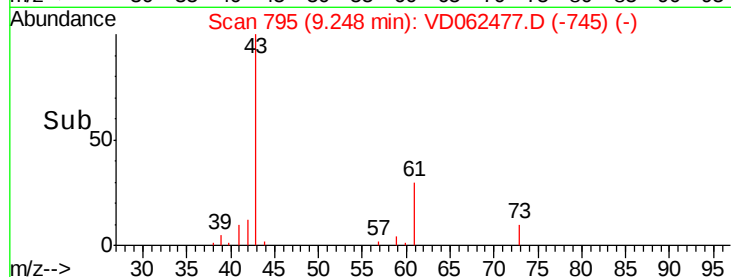
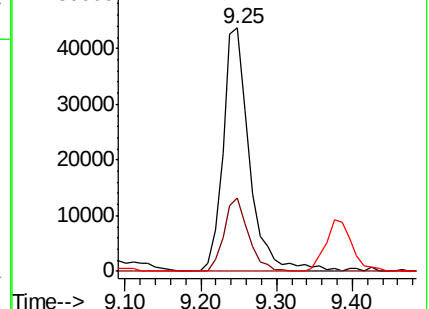
87 0.0 0.0 0.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 87.00 (86.70 to 87.70): VDC



#44

Trichloroethene

Concen: 21.465 ug/l

RT: 8.55 min Scan# 724

Delta R.T. -0.01 min

Lab File: VD062477.D

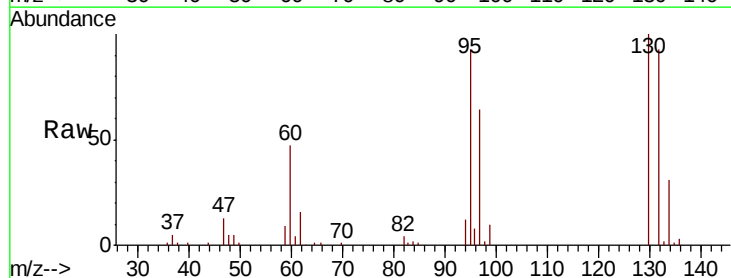
Acq: 21 May 2019 13:28

Tgt Ion:130 Resp: 163523

Ion Ratio Lower Upper

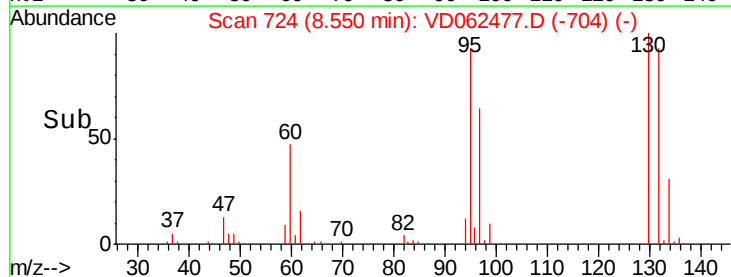
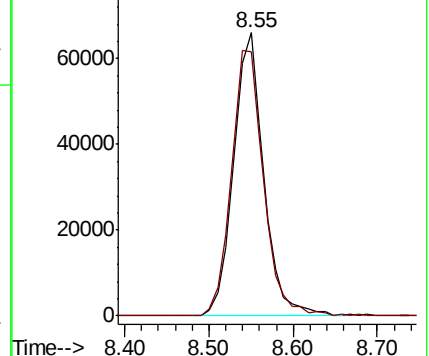
130 100

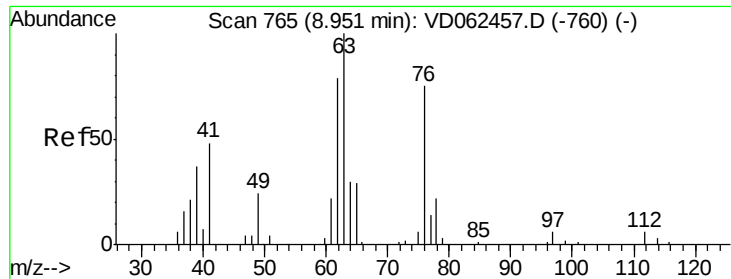
95 93.2 0.0 174.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 23.243 ug/l

RT: 8.94 min Scan# 764

Delta R.T. -0.01 min

Lab File: VD062477.D

Acq: 21 May 2019 13:28

Instrument :

MSVOA_D

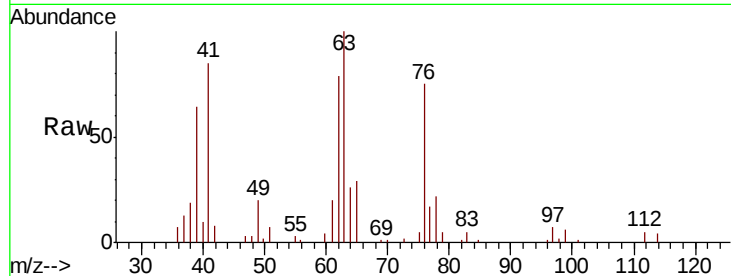
ClientSampleId :

Tot Ion: 63 Resp: 107770

Ion Ratio Lower Upper

63 100

65 28.8 23.8 35.6

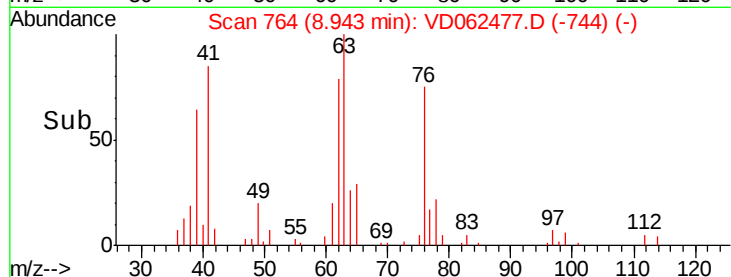


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC

8.94

Time-->



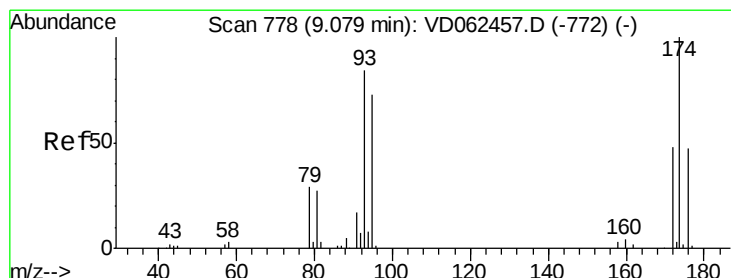
Abundance

Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC

8.94

Time-->



#46

Dibromomethane

Concen: 20.886 ug/l

RT: 9.07 min Scan# 777

Delta R.T. -0.01 min

Lab File: VD062477.D

Acq: 21 May 2019 13:28

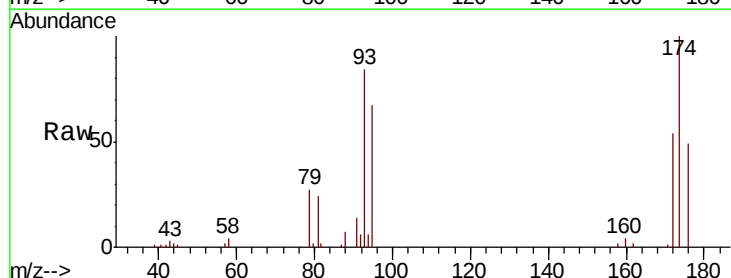
Tgt Ion: 93 Resp: 87784

Ion Ratio Lower Upper

93 100

95 78.9 64.8 97.2

174 118.6 79.3 118.9



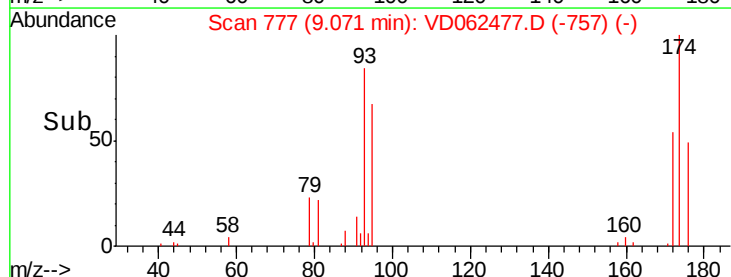
Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): VDC

9.07

Time-->



Abundance

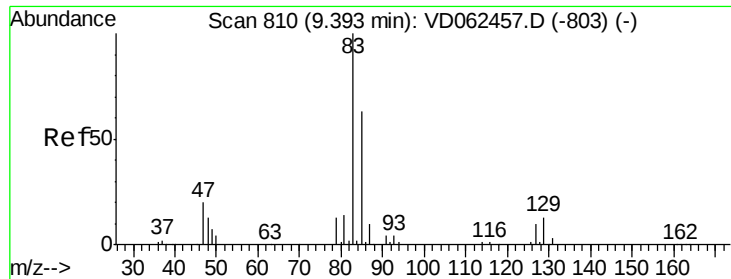
Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): VDC

9.07

Time-->



#47

Bromodichloromethane

Concen: 20.515 ug/l

RT: 9.38 min Scan# 808

Delta R.T. -0.02 min

Lab File: VD062477.D

Acq: 21 May 2019 13:28

Instrument :

MSVOA_D

ClientSampled :

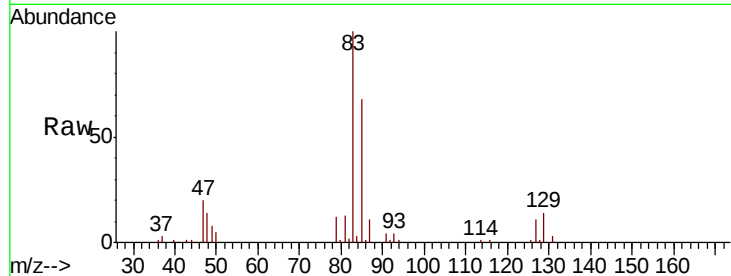
Tot Ion: 83 Resp: 219344

Ion Ratio Lower Upper

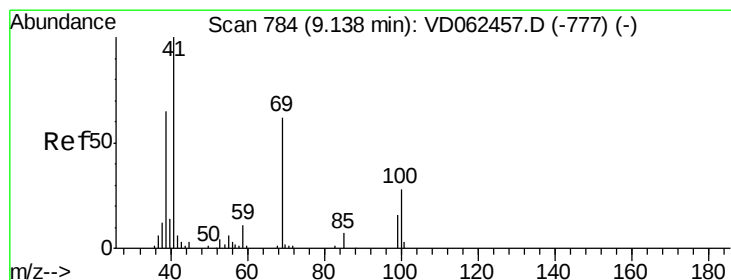
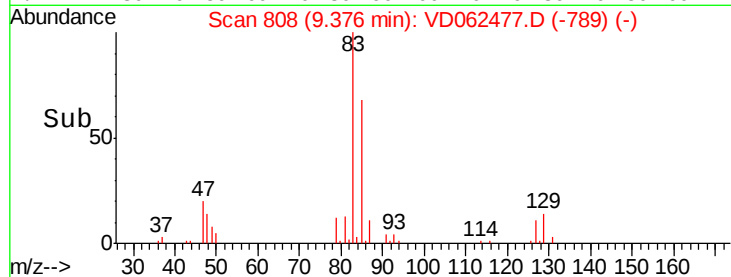
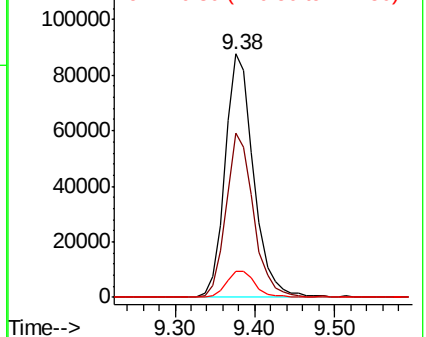
83 100

85 67.6 50.9 76.3

127 10.7 8.1 12.1



Abundance Ion 82.85 (82.55 to 83.55): VDC
Ion 84.95 (84.65 to 85.65): VDC
Ion 126.80 (126.50 to 127.50): VDC



#48

Methyl methacrylate

Concen: 21.295 ug/l

RT: 9.12 min Scan# 782

Delta R.T. -0.02 min

Lab File: VD062477.D

Acq: 21 May 2019 13:28

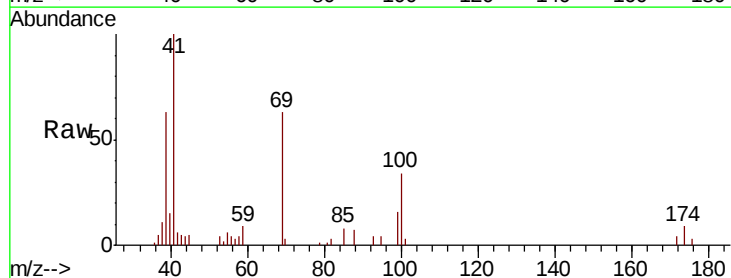
Tgt Ion: 41 Resp: 71638

Ion Ratio Lower Upper

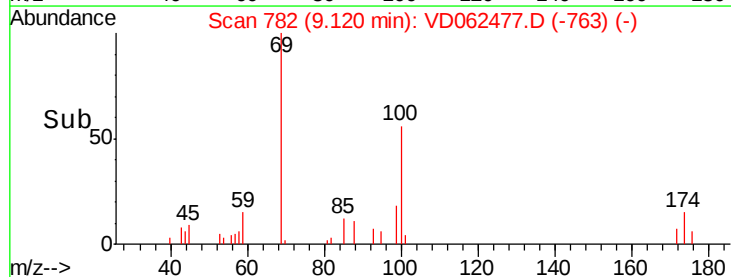
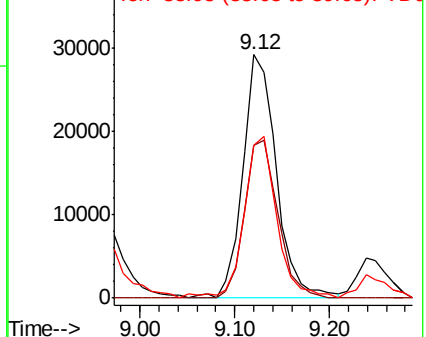
41 100

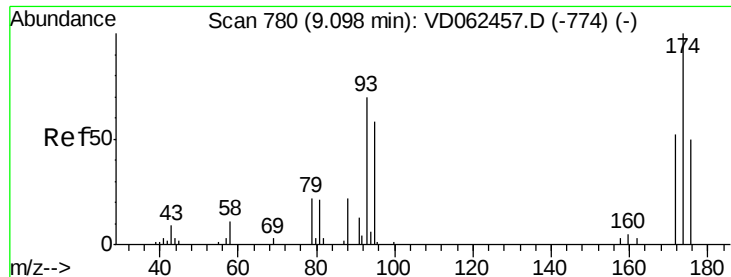
69 62.9 64.2 96.2#

39 62.5 46.8 70.2



Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 38.95 (38.65 to 39.65): VDC

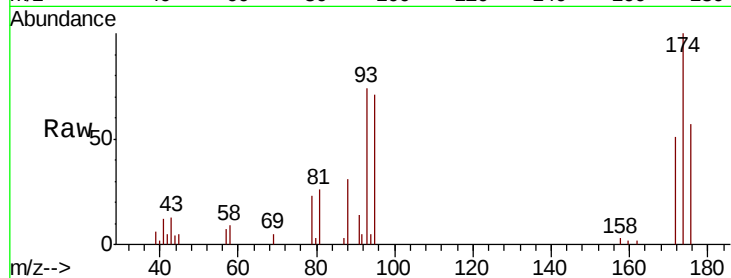




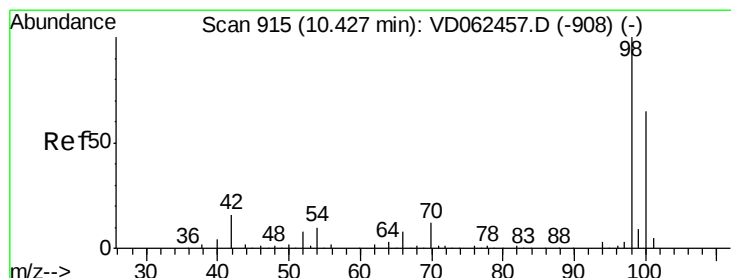
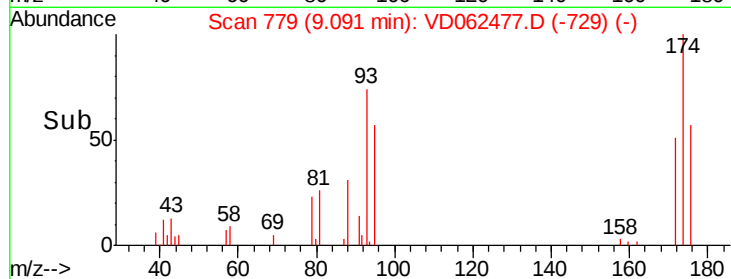
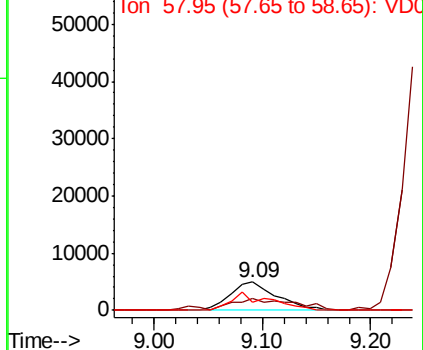
#49
1,4-Dioxane
Concen: 479.873 ug/l
RT: 9.09 min Scan# 779
Delta R.T. -0.01 min
Lab File: VD062477.D
Acq: 21 May 2019 13:28

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 88 Resp: 14480
Ion Ratio Lower Upper
88 100
43 40.9 23.4 35.0#
58 30.3 44.0 66.0#

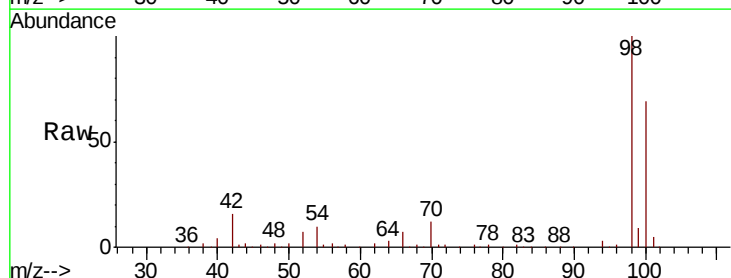


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

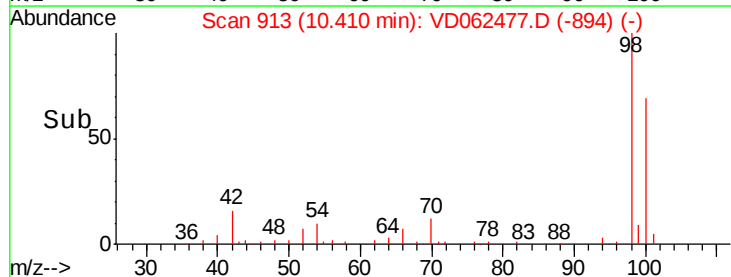
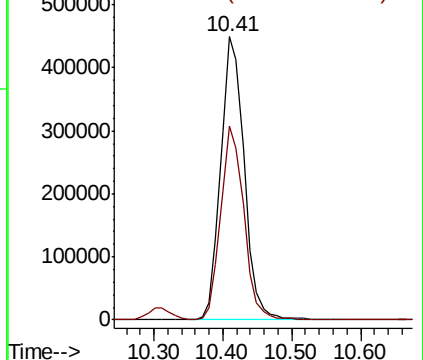


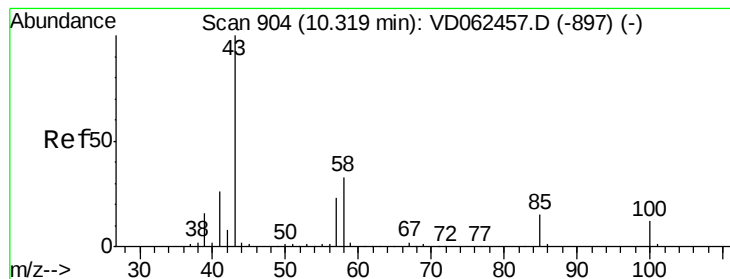
#50
Toluene-d8
Concen: 53.010 ug/l
RT: 10.41 min Scan# 913
Delta R.T. -0.02 min
Lab File: VD062477.D
Acq: 21 May 2019 13:28

Tgt Ion: 98 Resp: 1061769
Ion Ratio Lower Upper
98 100
100 68.5 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC





#51

4-Methyl-2-Pentanone

Concen: 113.429 ug/l

RT: 10.30 min Scan# 902

Delta R.T. -0.02 min

Lab File: VD062477.D

Acq: 21 May 2019 13:28

Instrument :

MSVOA_D

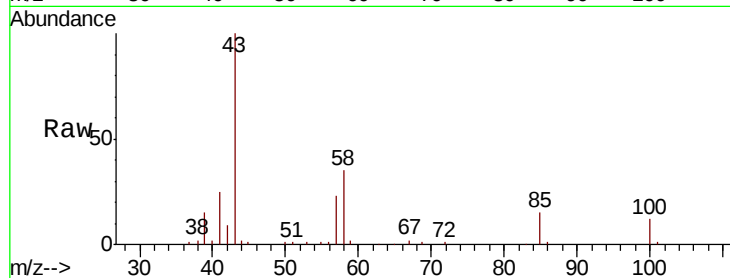
ClientSampleId :

Tot Ion: 43 Resp: 374594

Ion Ratio Lower Upper

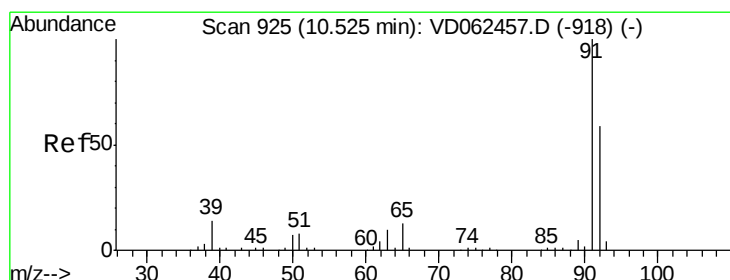
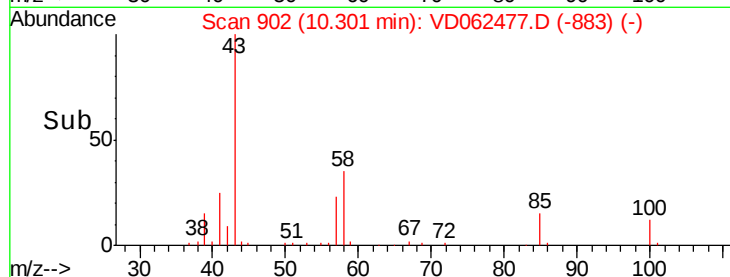
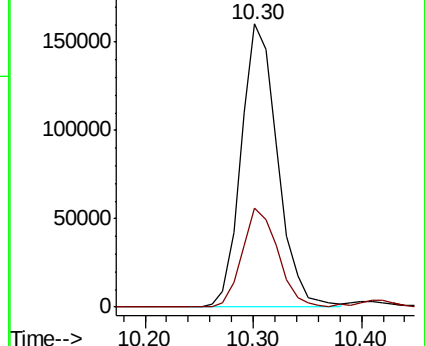
43 100

58 35.2 30.4 45.6



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 23.029 ug/l

RT: 10.51 min Scan# 923

Delta R.T. -0.02 min

Lab File: VD062477.D

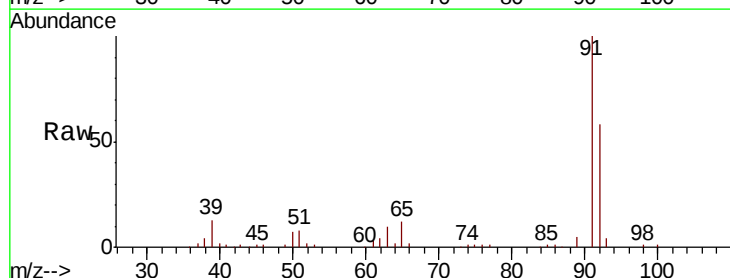
Acq: 21 May 2019 13:28

Tgt Ion: 92 Resp: 299954

Ion Ratio Lower Upper

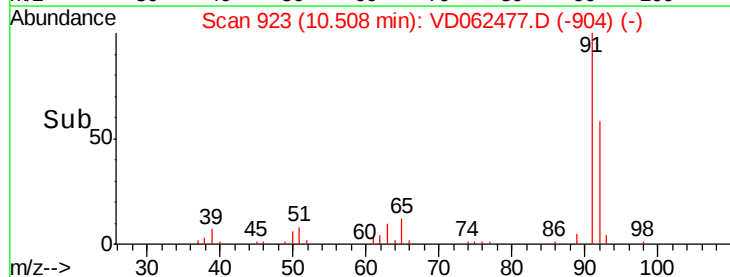
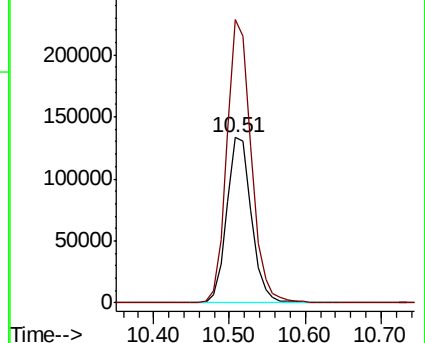
92 100

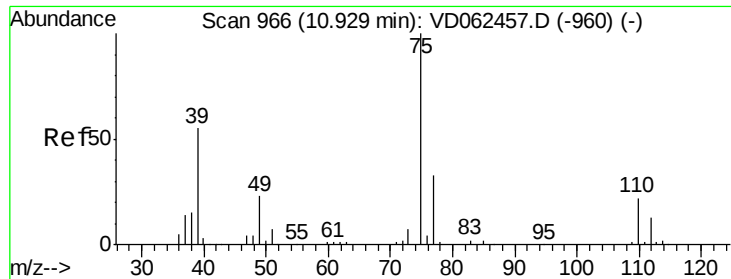
91 171.2 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

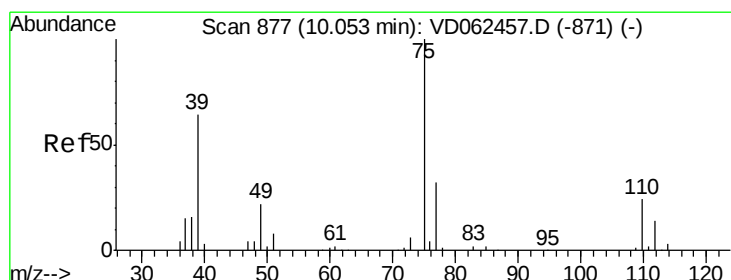
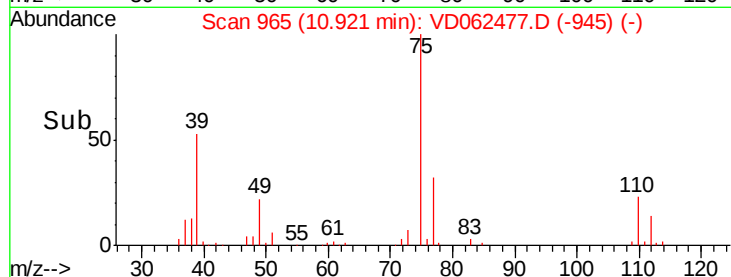
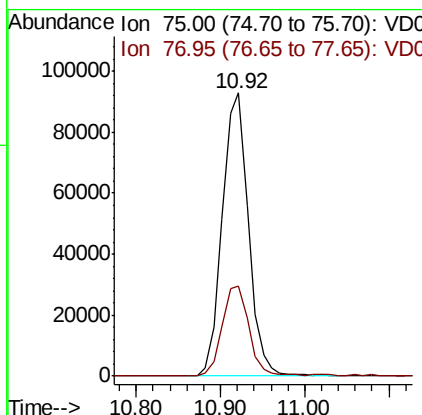
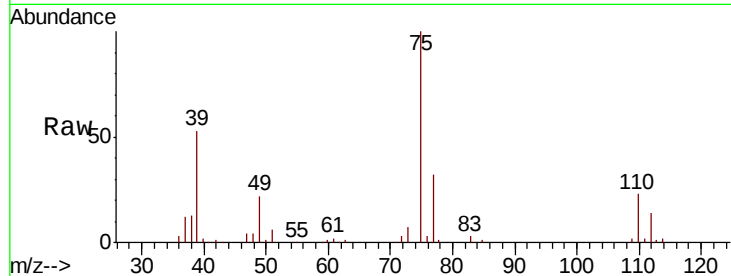




#53
 t-1,3-Dichloropropene
 Concen: 22.480 ug/l
 RT: 10.92 min Scan# 965
 Delta R.T. -0.01 min
 Lab File: VD062477.D
 Acq: 21 May 2019 13:28

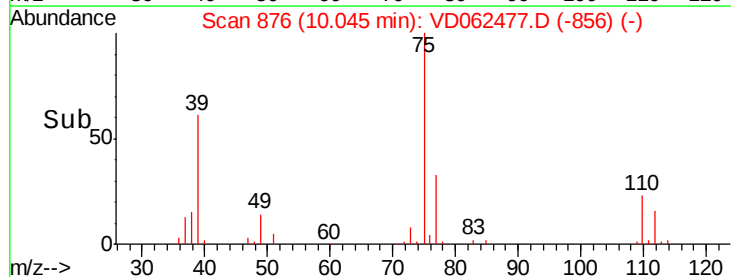
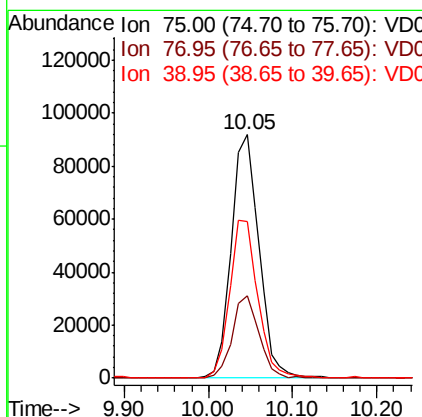
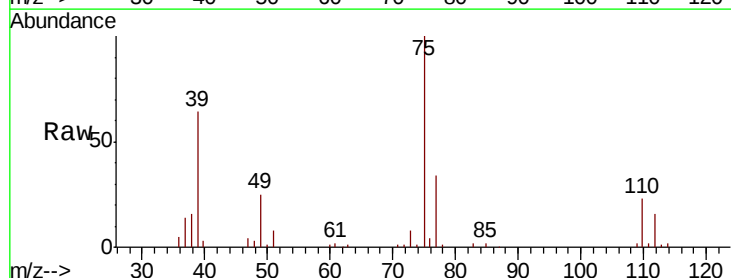
Instrument :
 MSVOA_D
 ClientSampleId :

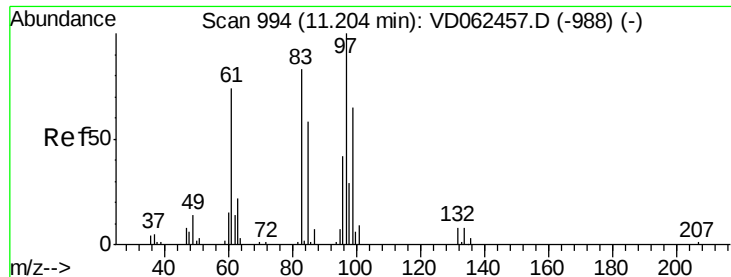
Tot Ion: 75 Resp: 200112
 Ion Ratio Lower Upper
 75 100
 77 31.8 25.8 38.8



#54
 cis-1,3-Dichloropropene
 Concen: 22.611 ug/l
 RT: 10.05 min Scan# 876
 Delta R.T. -0.01 min
 Lab File: VD062477.D
 Acq: 21 May 2019 13:28

Tgt Ion: 75 Resp: 210018
 Ion Ratio Lower Upper
 75 100
 77 33.8 25.5 38.3
 39 64.1 39.4 59.2#

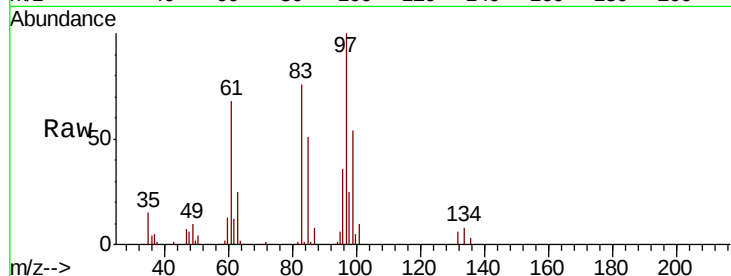




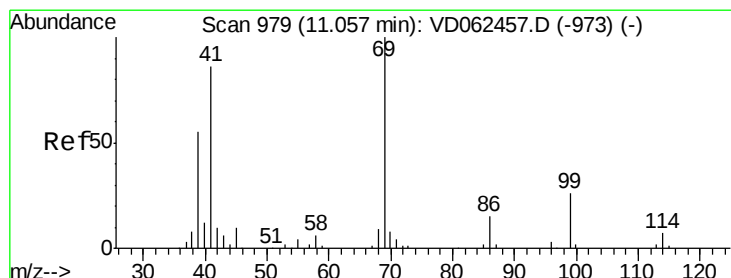
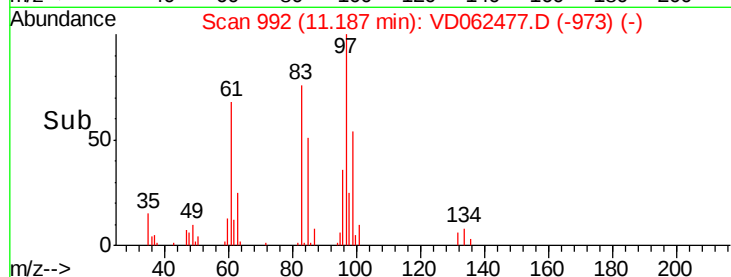
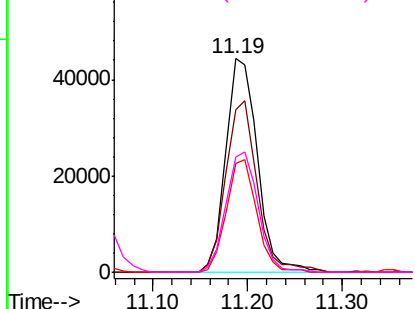
#55
 1,1,2-Trichloroethane
 Concen: 23.237 ug/l
 RT: 11.19 min Scan# 992
 Delta R.T. -0.02 min
 Lab File: VD062477.D
 Acq: 21 May 2019 13:28

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 97 Resp: 102580
 Ion Ratio Lower Upper
 97 100
 83 76.3 65.7 98.5
 85 51.2 45.6 68.4
 99 54.1 48.4 72.6

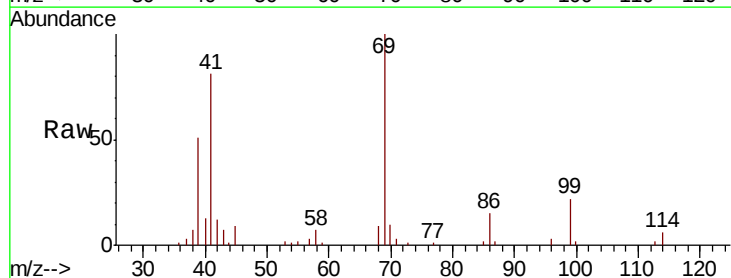


Abundance Ion 96.85 (96.55 to 97.55): VDC
 Ion 82.95 (82.65 to 83.65): VDC
 Ion 84.95 (84.65 to 85.65): VDC
 Ion 98.85 (98.55 to 99.55): VDC

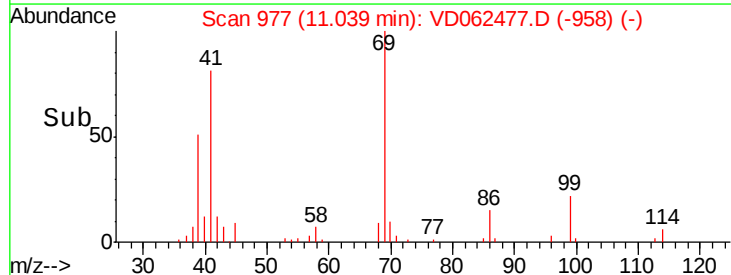
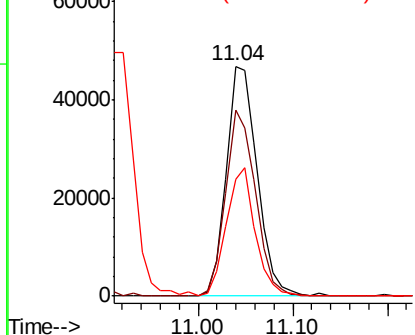


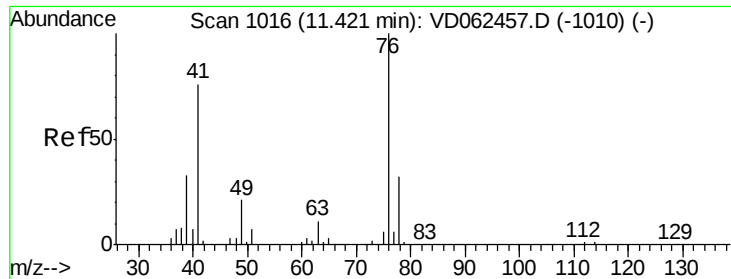
#56
 Ethyl methacrylate
 Concen: 22.327 ug/l
 RT: 11.04 min Scan# 977
 Delta R.T. -0.02 min
 Lab File: VD062477.D
 Acq: 21 May 2019 13:28

Tgt Ion: 69 Resp: 105365
 Ion Ratio Lower Upper
 69 100
 41 80.7 56.3 84.5
 39 50.9 29.4 44.2#



Abundance Ion 69.00 (68.70 to 69.70): VDC
 Ion 41.05 (40.75 to 41.75): VDC
 Ion 38.95 (38.65 to 39.65): VDC





#57

1,3-Dichloropropane

Concen: 22.155 ug/l

RT: 11.41 min Scan# 1015

Delta R.T. -0.01 min

Lab File: VD062477.D

Acq: 21 May 2019 13:28

Instrument :

MSVOA_D

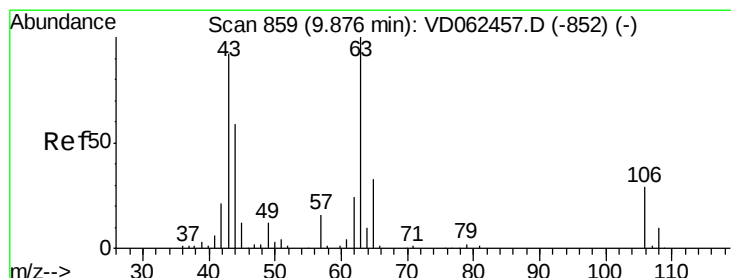
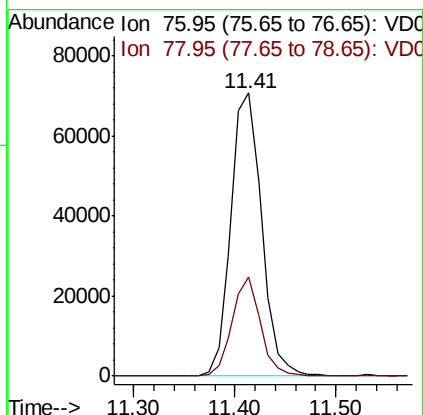
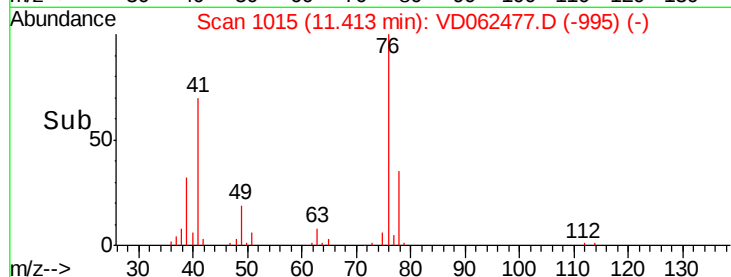
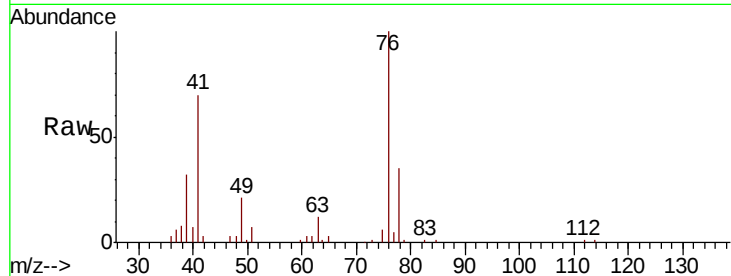
ClientSampled :

Tot Ion: 76 Resp: 149990

Ion Ratio Lower Upper

76 100

78 35.1 26.2 39.2



#58

2-Chloroethyl Vinyl ether

Concen: 115.331 ug/l

RT: 9.86 min Scan# 857

Delta R.T. -0.02 min

Lab File: VD062477.D

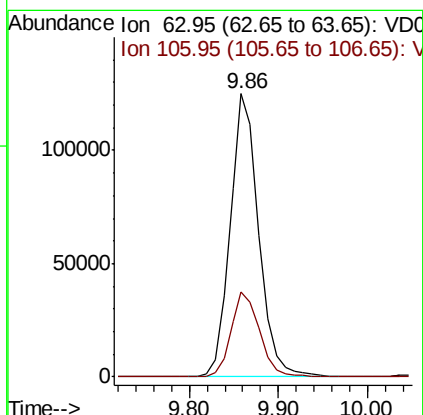
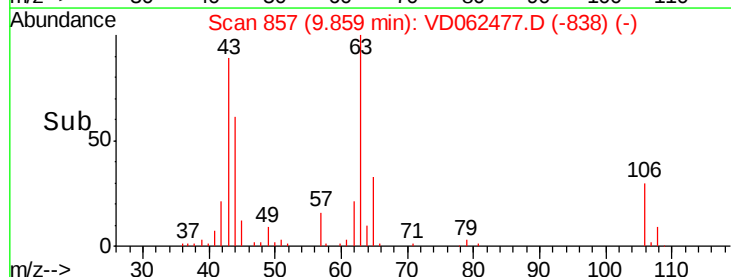
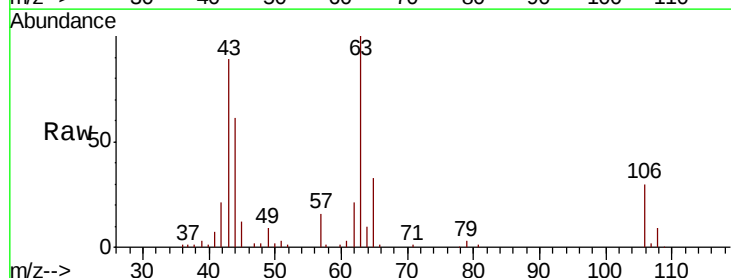
Acq: 21 May 2019 13:28

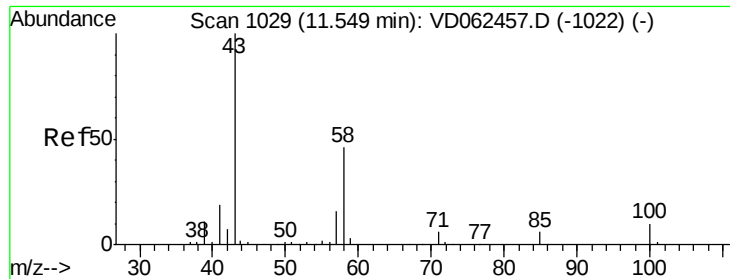
Tgt Ion: 63 Resp: 279480

Ion Ratio Lower Upper

63 100

106 30.1 22.6 34.0

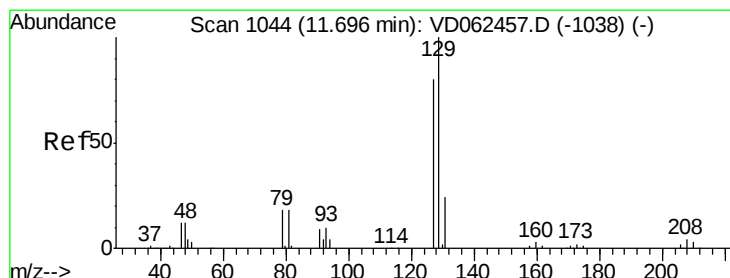
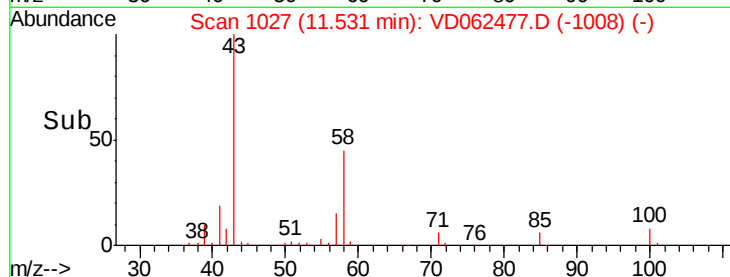
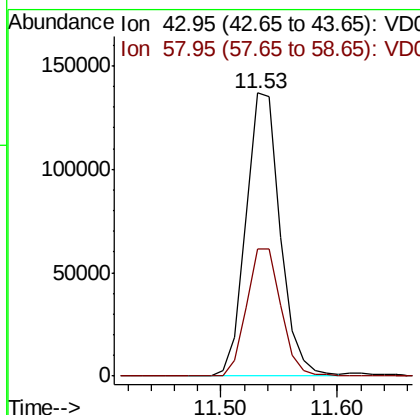
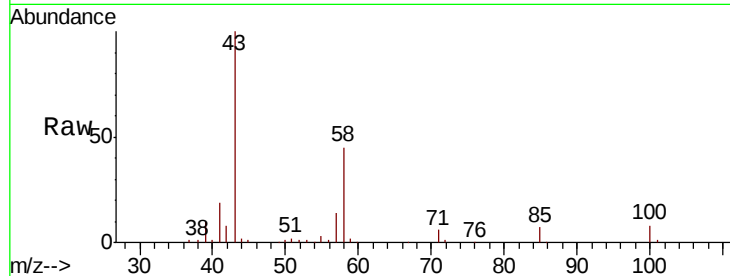




#59
2-Hexanone
Concen: 116.171 ug/l
RT: 11.53 min Scan# 1027
Delta R.T. -0.02 min
Lab File: VD062477.D
Acq: 21 May 2019 13:28

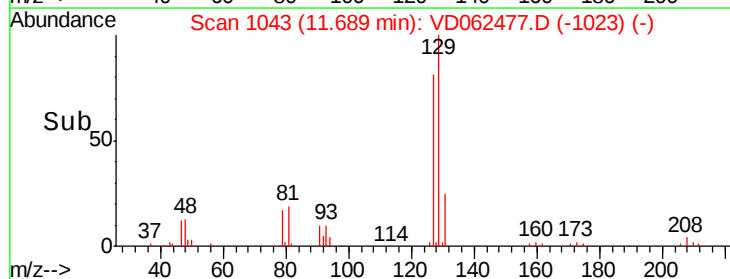
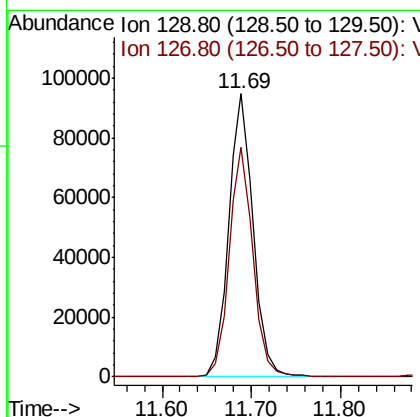
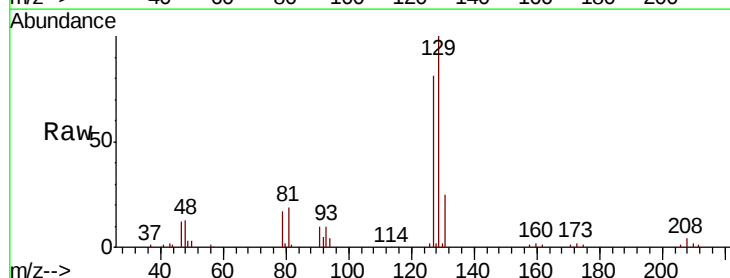
Instrument :
MSVOA_D
ClientSampleId :

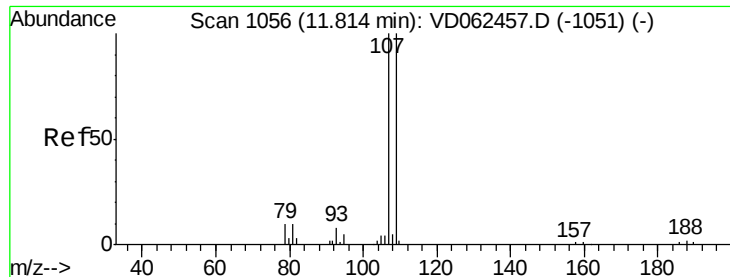
Tot Ion: 43 Resp: 278827
Ion Ratio Lower Upper
43 100
58 45.2 25.4 76.4



#60
Dibromochloromethane
Concen: 21.450 ug/l
RT: 11.69 min Scan# 1043
Delta R.T. -0.01 min
Lab File: VD062477.D
Acq: 21 May 2019 13:28

Tgt Ion: 129 Resp: 181870
Ion Ratio Lower Upper
129 100
127 81.1 38.0 113.9





#61

1,2-Dibromoethane

Concen: 22.451 ug/l

RT: 11.81 min Scan# 1055

Delta R.T. -0.01 min

Lab File: VD062477.D

Acq: 21 May 2019 13:28

Instrument :

MSVOA_D

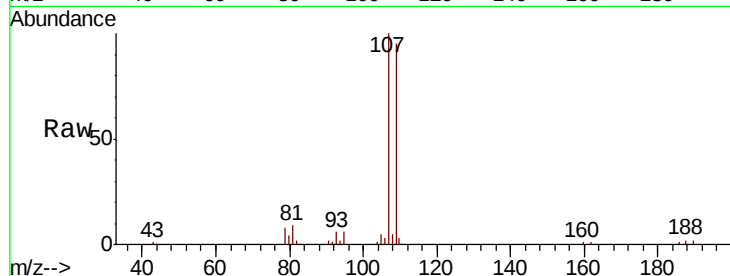
ClientSampleId :

Tot Ion:107 Resp: 122142

Ion Ratio Lower Upper

107 100

109 94.9 78.3 117.5



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V

11.81

80000

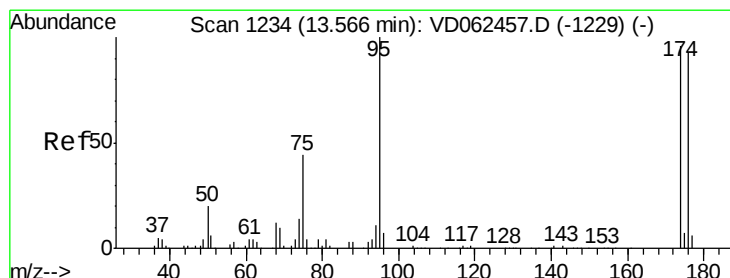
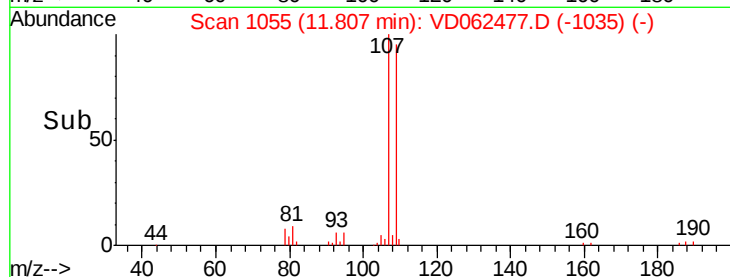
60000

40000

20000

0

Time--> 11.70 11.80 11.90



#62

4-Bromofluorobenzene

Concen: 48.864 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. -0.01 min

Lab File: VD062477.D

Acq: 21 May 2019 13:28

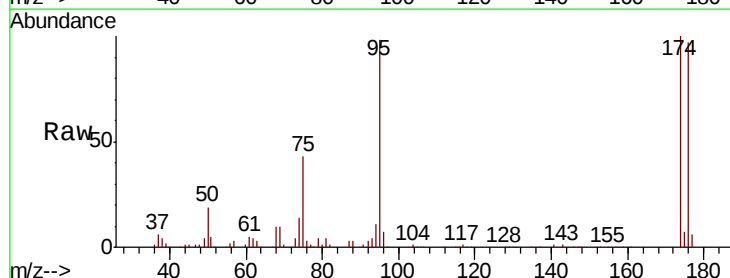
Tgt Ion: 95 Resp: 428129

Ion Ratio Lower Upper

95 100

174 101.7 0.0 181.8

176 98.7 0.0 174.4



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

400000

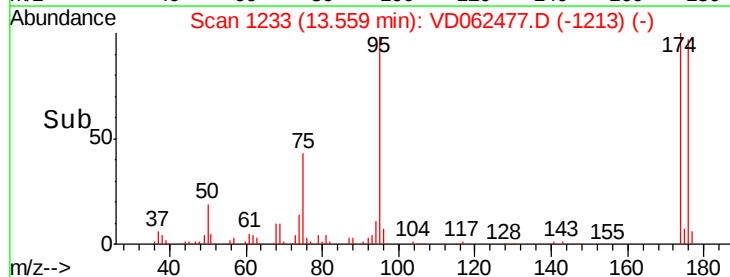
300000

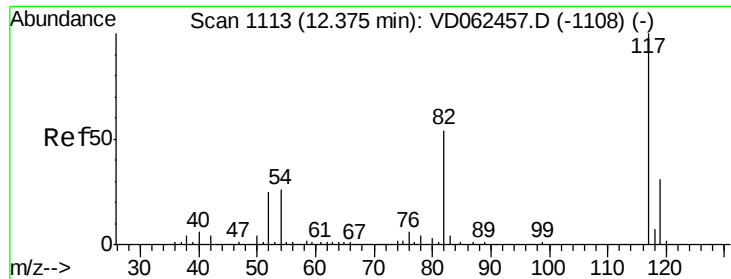
200000

100000

0

Time--> 13.50 13.60 13.70

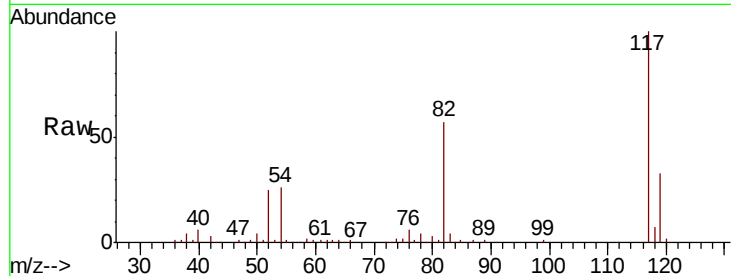




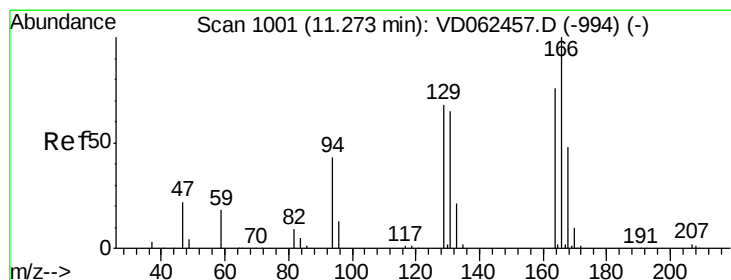
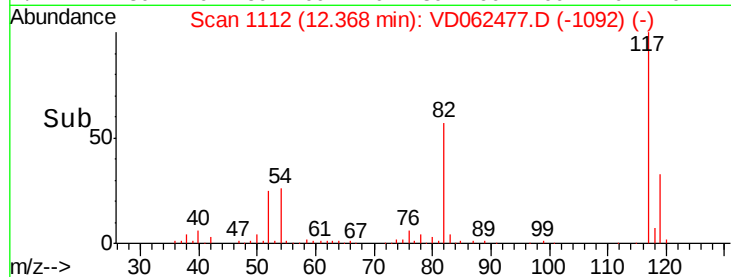
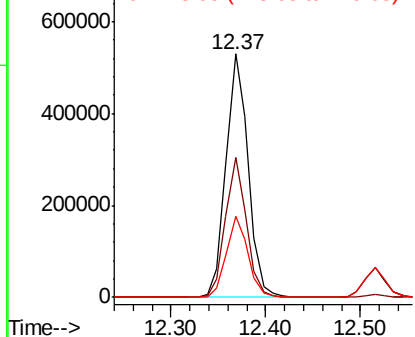
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. -0.01 min
Lab File: VD062477.D
Acq: 21 May 2019 13:28

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 857935
Ion Ratio Lower Upper
117 100
82 57.5 36.2 54.2#
119 33.2 26.2 39.4

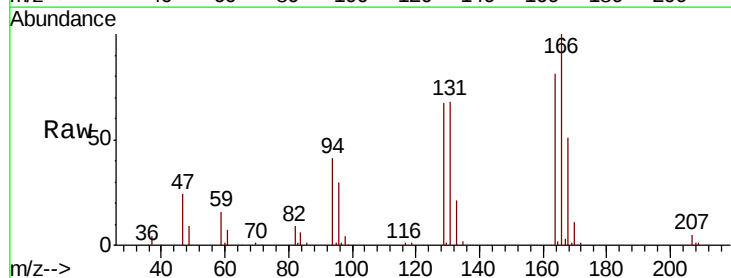


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

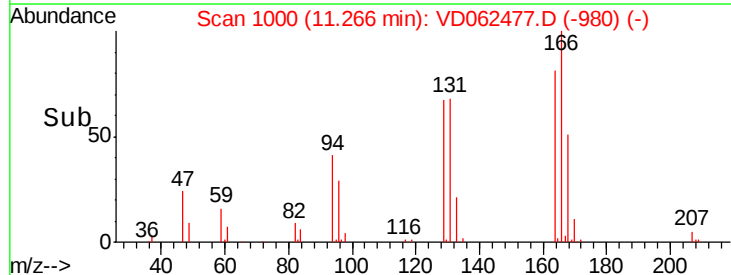
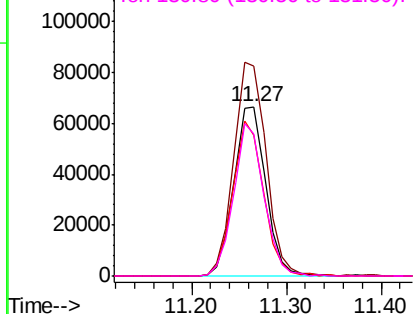


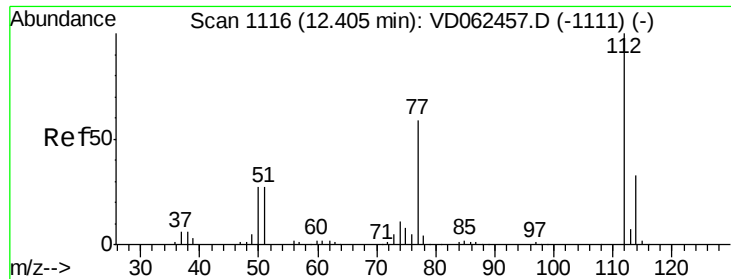
#64
Tetrachloroethene
Concen: 21.508 ug/l
RT: 11.27 min Scan# 1000
Delta R.T. -0.01 min
Lab File: VD062477.D
Acq: 21 May 2019 13:28

Tgt Ion:164 Resp: 154505
Ion Ratio Lower Upper
164 100
166 123.6 101.5 152.3
129 82.7 74.6 112.0
131 83.9 72.6 108.8



Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.85 (165.55 to 166.55): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#65

Chlorobenzene

Concen: 21.243 ug/l

RT: 12.40 min Scan# 1115

Delta R.T. -0.01 min

Lab File: VD062477.D

Acq: 21 May 2019 13:28

Instrument :

MSVOA_D

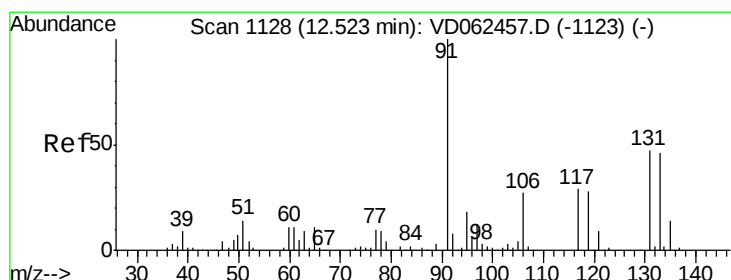
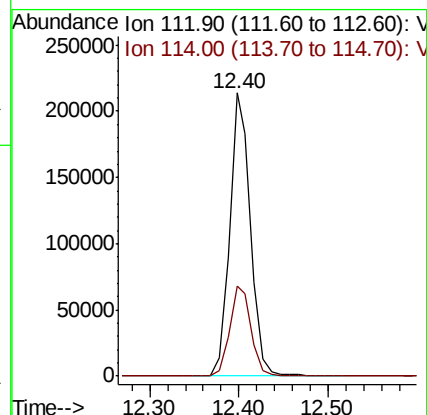
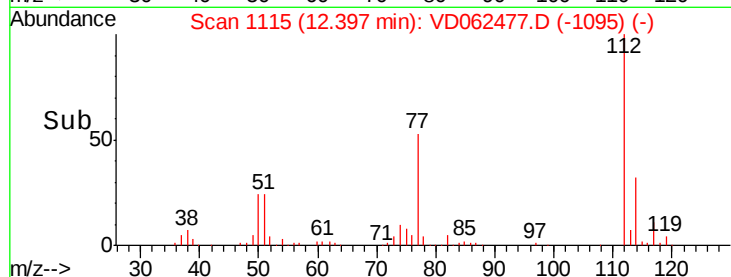
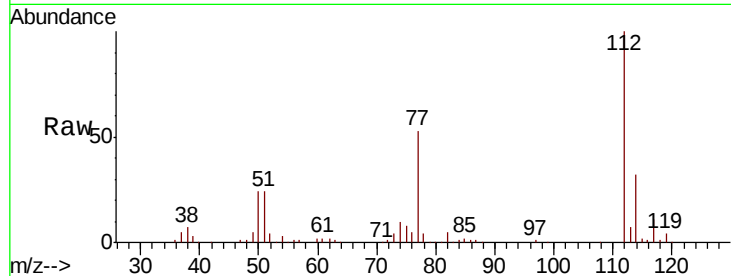
ClientSampled :

Tot Ion:112 Resp: 350480

Ion Ratio Lower Upper

112 100

114 31.9 25.8 38.8



#66

1,1,1,2-Tetrachloroethane

Concen: 21.860 ug/l

RT: 12.52 min Scan# 1127

Delta R.T. -0.01 min

Lab File: VD062477.D

Acq: 21 May 2019 13:28

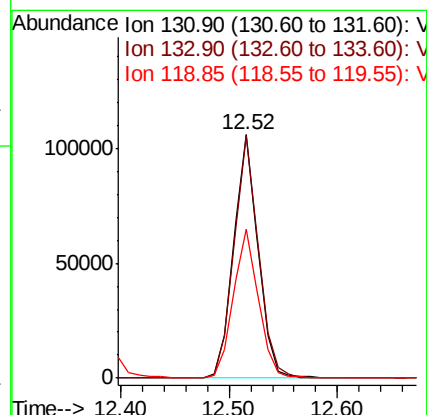
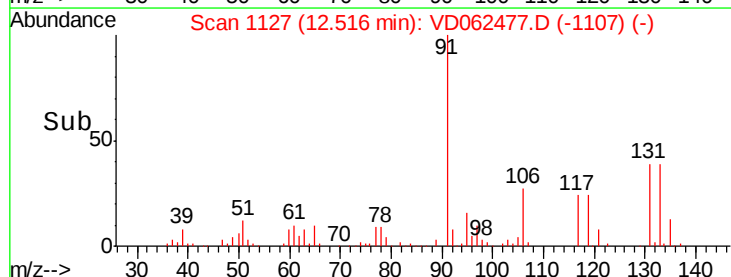
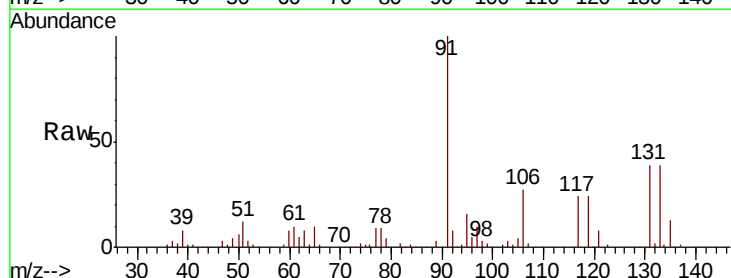
Tgt Ion:131 Resp: 166478

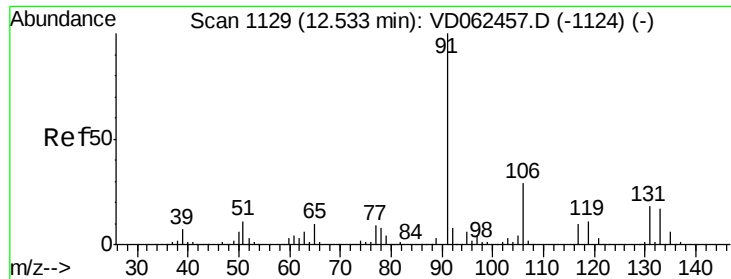
Ion Ratio Lower Upper

131 100

133 99.5 48.6 145.8

119 61.2 34.7 104.1

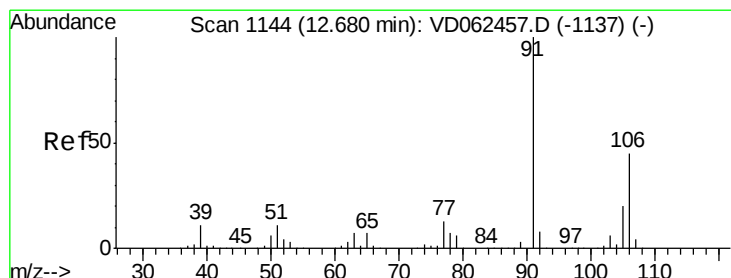
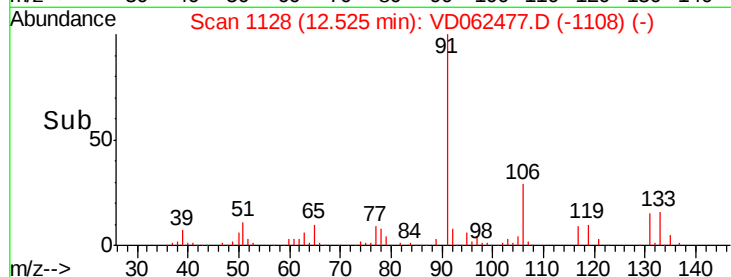
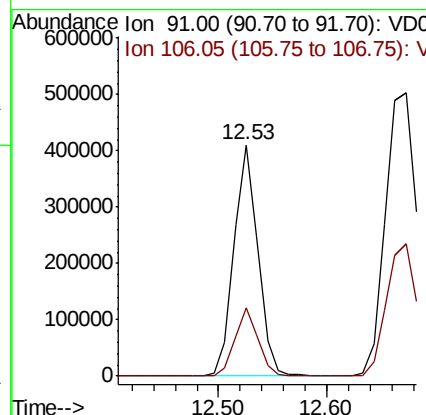
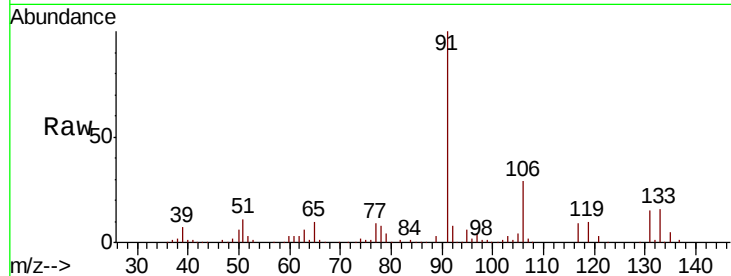




#67
Ethvl Benzene
Concen: 22.328 ug/l
RT: 12.53 min Scan# 1128
Delta R.T. -0.01 min
Lab File: VD062477.D
Acq: 21 May 2019 13:28

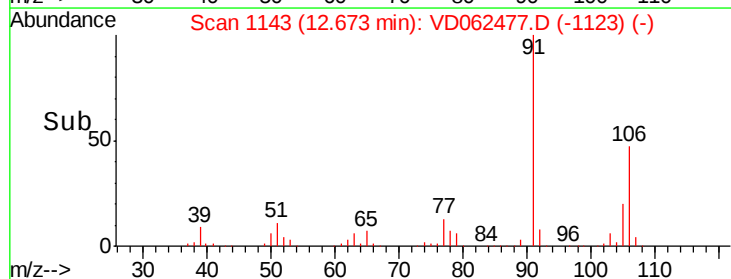
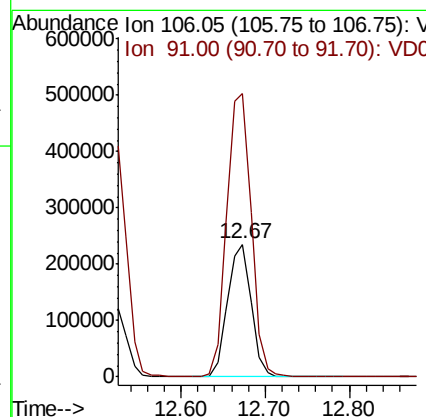
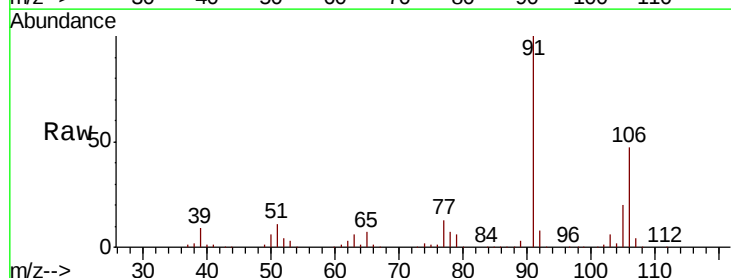
Instrument :
MSVOA_D
ClientSampleId :

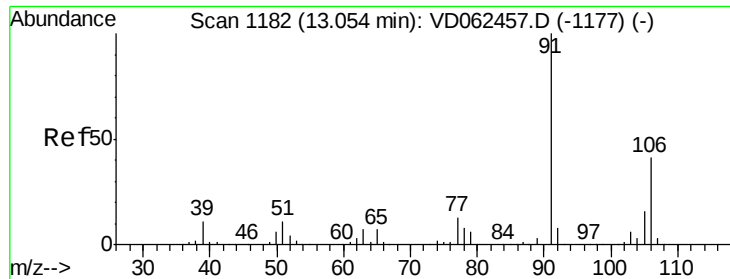
Tot Ion: 91 Resp: 634512
Ion Ratio Lower Upper
91 100
106 29.4 24.7 37.1



#68
m/p-Xylenes
Concen: 44.824 ug/l
RT: 12.67 min Scan# 1143
Delta R.T. -0.01 min
Lab File: VD062477.D
Acq: 21 May 2019 13:28

Tgt Ion:106 Resp: 457243
Ion Ratio Lower Upper
106 100
91 213.2 164.0 246.0

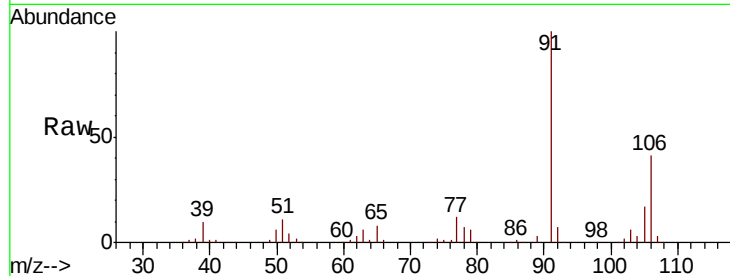




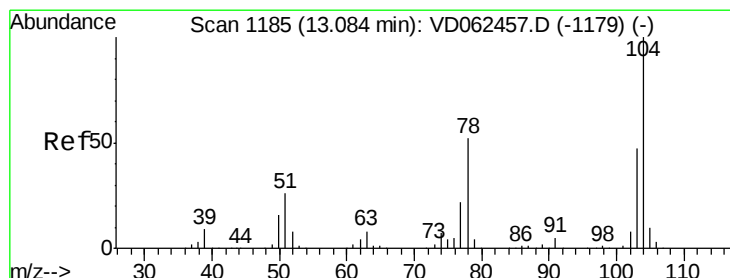
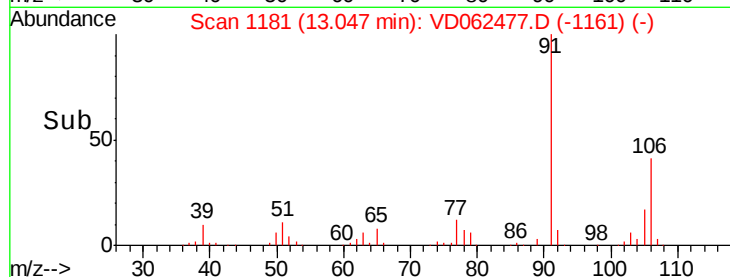
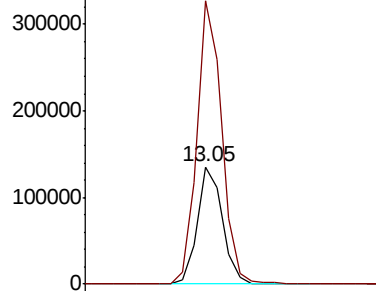
#69
o-Xylene
Concen: 21.006 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. -0.01 min
Lab File: VD062477.D
Acq: 21 May 2019 13:28

Instrument :
MSVOA_D
ClientSampleID :

Tot Ion:106 Resp: 202172
Ion Ratio Lower Upper
106 100
91 241.3 106.7 319.9

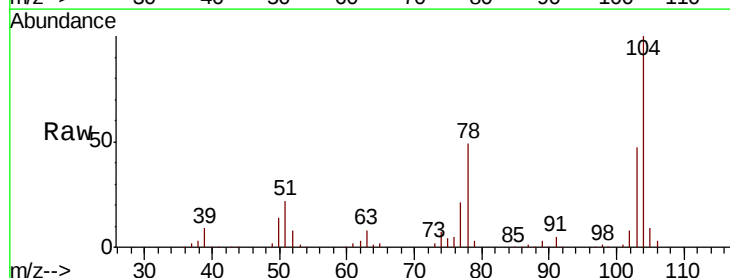


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

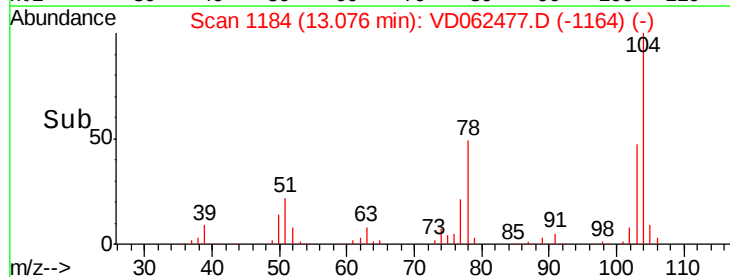
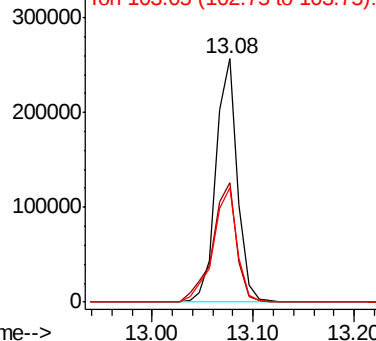


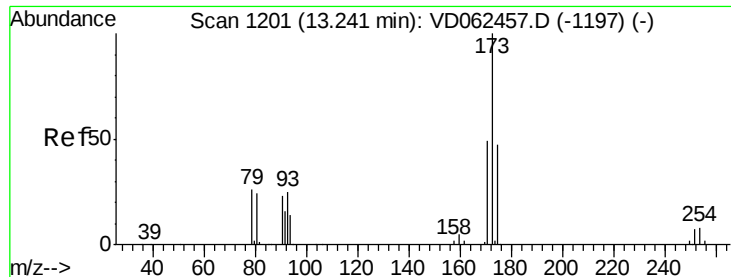
#70
Styrene
Concen: 23.203 ug/l
RT: 13.08 min Scan# 1184
Delta R.T. -0.01 min
Lab File: VD062477.D
Acq: 21 May 2019 13:28

Tgt Ion:104 Resp: 379908
Ion Ratio Lower Upper
104 100
78 48.9 35.4 53.2
103 47.2 37.5 56.3



Abundance Ion 104.05 (103.75 to 104.75): V
Ion 77.95 (77.65 to 78.65): V
Ion 103.05 (102.75 to 103.75): V





#71

Bromoform

Concen: 21.117 ug/l

RT: 13.23 min Scan# 1200

Delta R.T. -0.01 min

Lab File: VD062477.D

Acq: 21 May 2019 13:28

Instrument :

MSVOA_D

ClientSampleId :

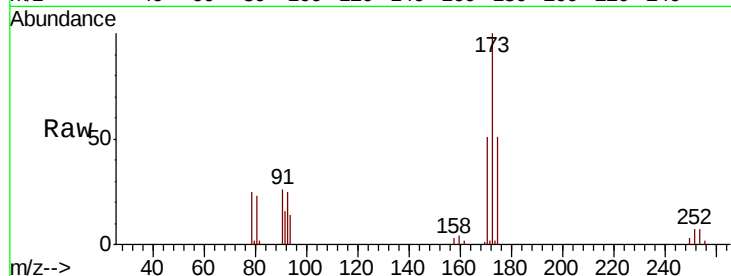
Tot Ion:173 Resp: 106801

Ion Ratio Lower Upper

173 100

175 50.8 24.4 73.4

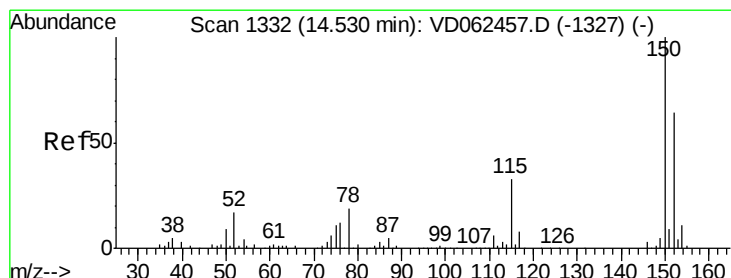
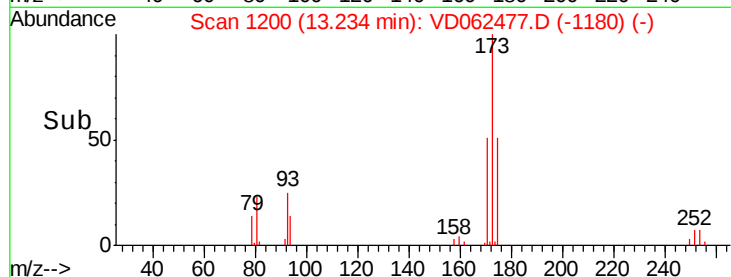
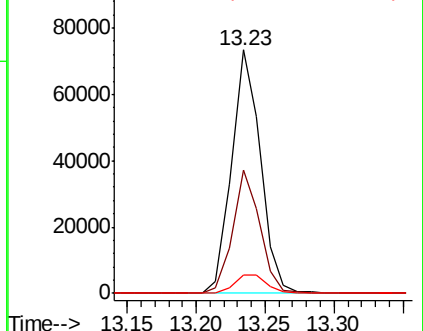
254 7.3 5.4 8.2



Abundance Ion 172.80 (172.50 to 173.50): V

Ion 174.80 (174.50 to 175.50): V

Ion 253.70 (253.40 to 254.40): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1331

Delta R.T. -0.01 min

Lab File: VD062477.D

Acq: 21 May 2019 13:28

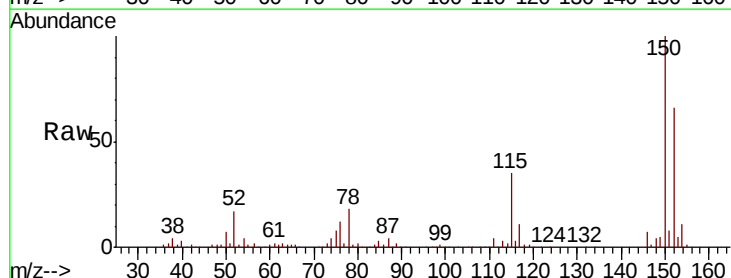
Tgt Ion:152 Resp: 441685

Ion Ratio Lower Upper

152 100

115 53.3 30.9 92.7

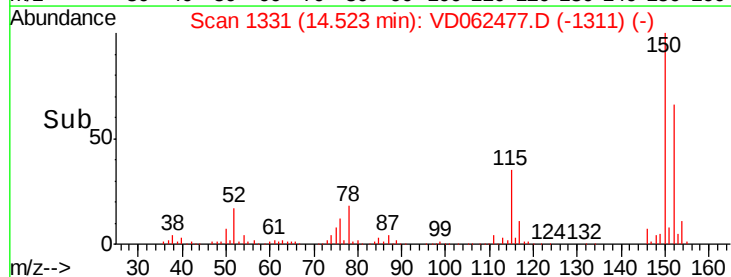
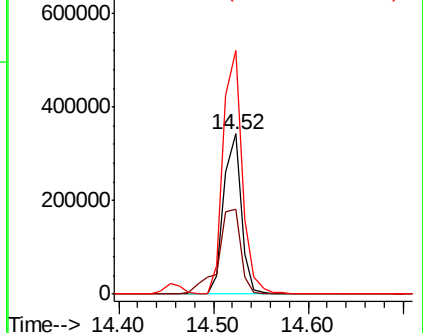
150 151.9 0.0 314.8

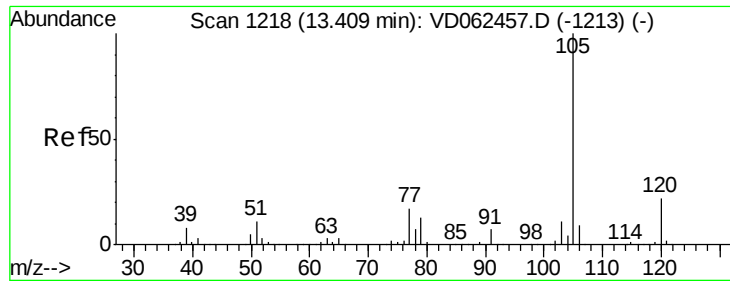


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 21.586 ug/l

RT: 13.40 min Scan# 1217

Delta R.T. -0.01 min

Lab File: VD062477.D

Acq: 21 May 2019 13:28

Instrument :

MSVOA_D

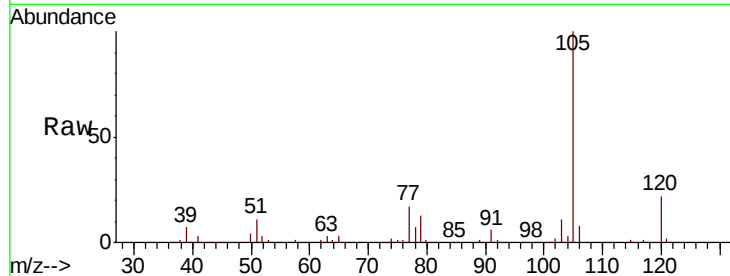
ClientSampleId :

Tot Ion:105 Resp: 600991

Ion Ratio Lower Upper

105 100

120 21.5 12.0 36.1



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

13.40

400000

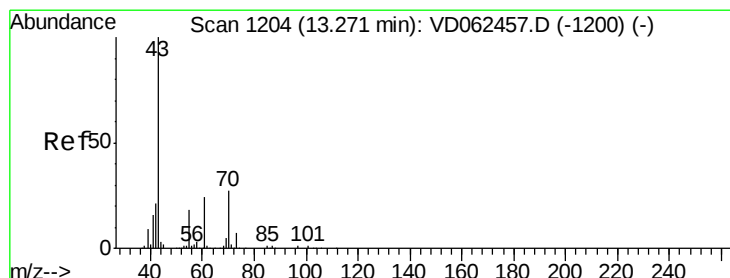
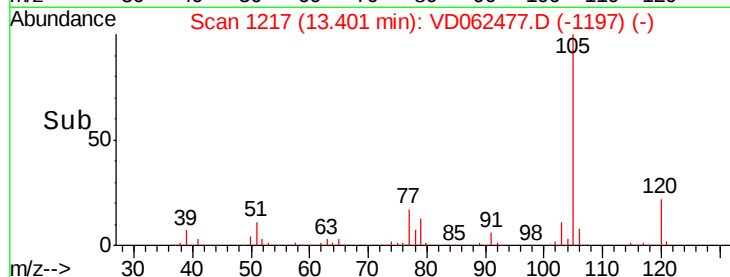
300000

200000

100000

0

Time--> 13.30 13.40 13.50



#74

N-ethyl acetate

Concen: 21.952 ug/l

RT: 13.26 min Scan# 1203

Delta R.T. -0.01 min

Lab File: VD062477.D

Acq: 21 May 2019 13:28

Tgt Ion: 43 Resp: 150948

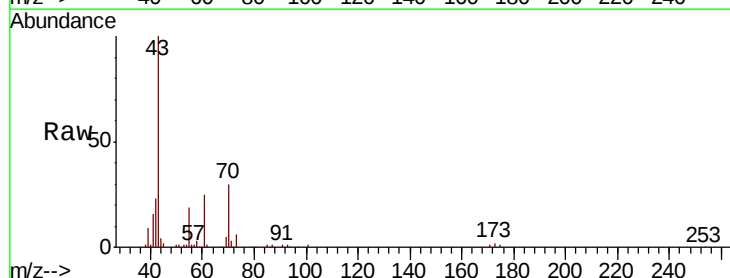
Ion Ratio Lower Upper

43 100

70 29.6 24.2 36.4

55 18.7 16.0 24.0

61 24.8 21.6 32.4



Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V

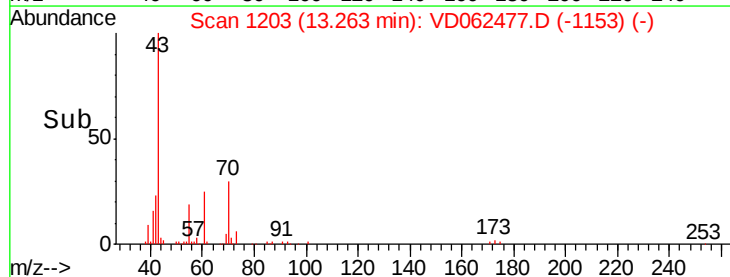
150000

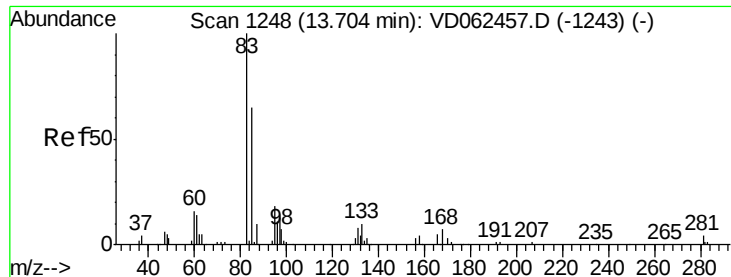
100000

50000

0

Time--> 13.20 13.30





#75

1,1,2,2-Tetrachloroethane

Concen: 21.697 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. -0.01 min

Lab File: VD062477.D

Acq: 21 May 2019 13:28

Instrument :

MSVOA_D

ClientSampleId :

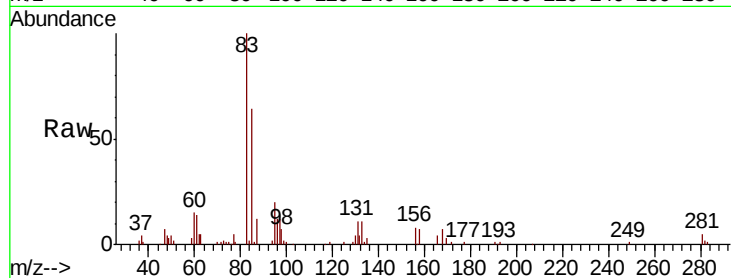
Tot Ion: 83 Resp: 108978

Ion Ratio Lower Upper

83 100

131 10.7 5.0 14.9

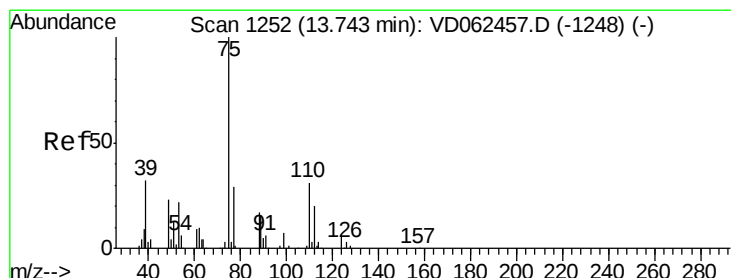
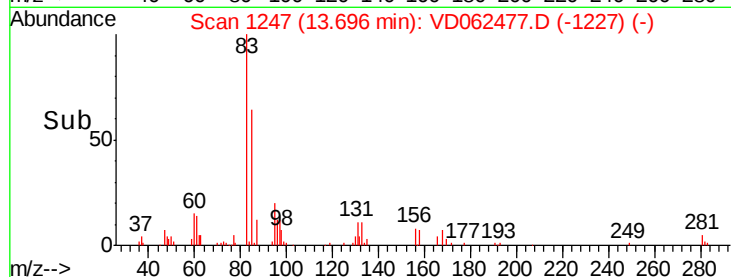
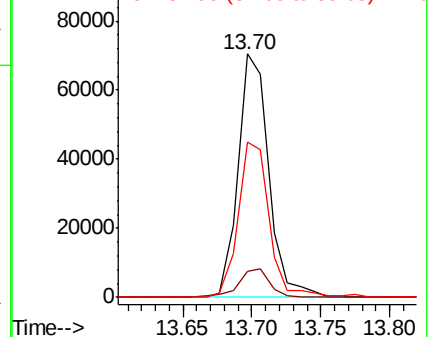
85 62.5 32.6 97.7



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 21.932 ug/l

RT: 13.74 min Scan# 1251

Delta R.T. -0.01 min

Lab File: VD062477.D

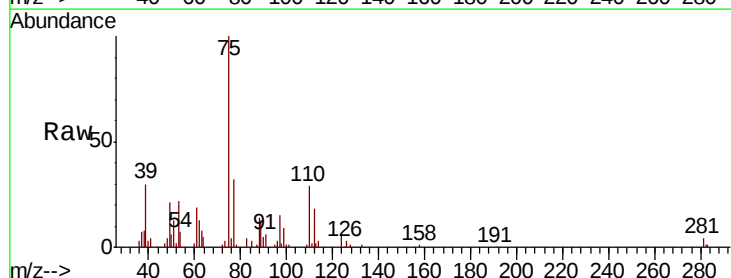
Acq: 21 May 2019 13:28

Tgt Ion: 75 Resp: 114101

Ion Ratio Lower Upper

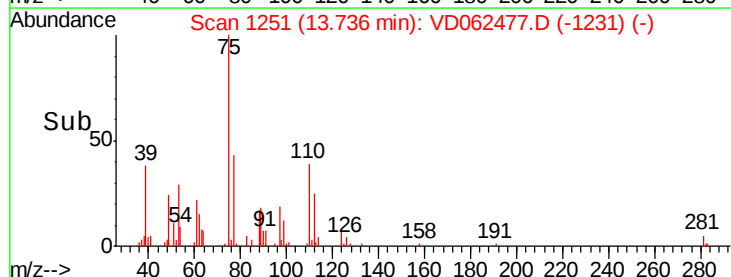
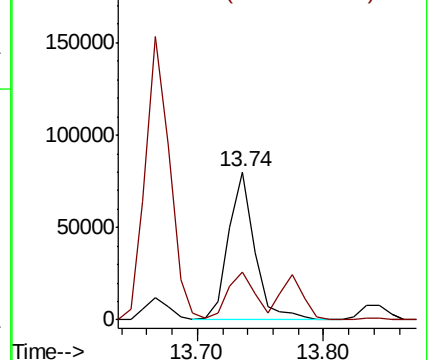
75 100

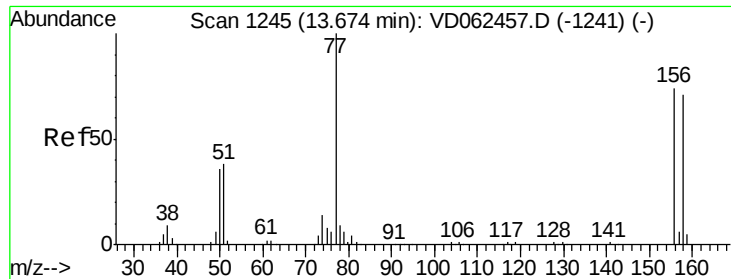
77 32.3 16.4 49.4



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 21.313 ug/l

RT: 13.67 min Scan# 1244

Delta R.T. -0.01 min

Lab File: VD062477.D

Acq: 21 May 2019 13:28

Instrument :

MSVOA_D

ClientSampleId :

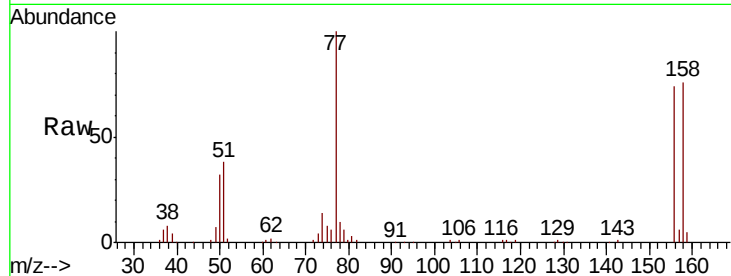
Tot Ion:156 Resp: 168326

Ion Ratio Lower Upper

156 100

77 134.6 53.1 159.4

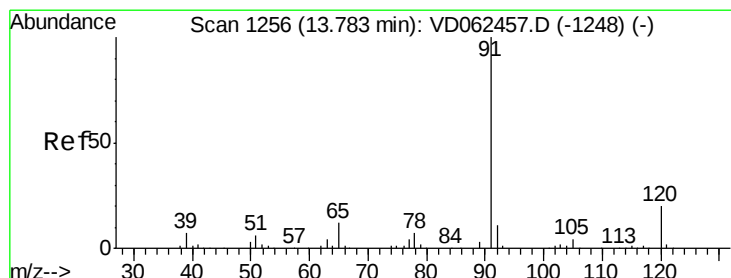
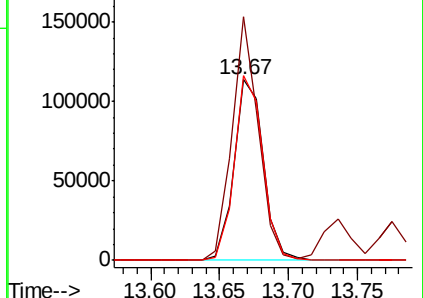
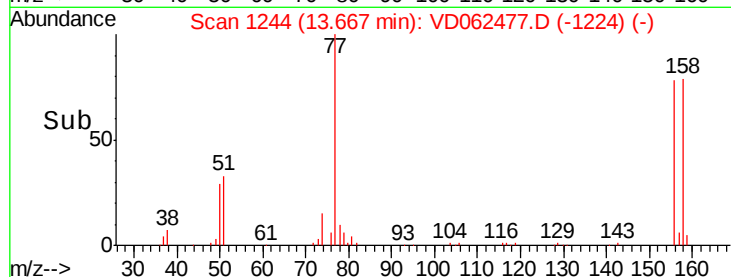
158 102.0 49.4 148.0



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 22.873 ug/l

RT: 13.78 min Scan# 1255

Delta R.T. -0.01 min

Lab File: VD062477.D

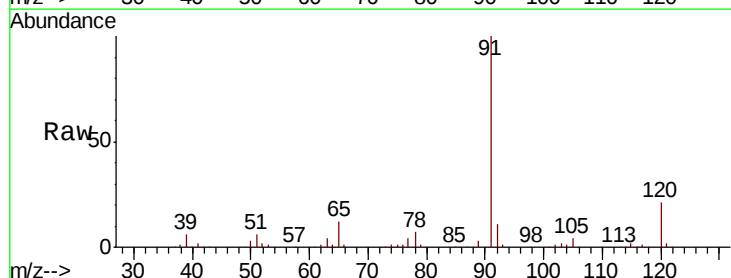
Acq: 21 May 2019 13:28

Tgt Ion: 91 Resp: 737643

Ion Ratio Lower Upper

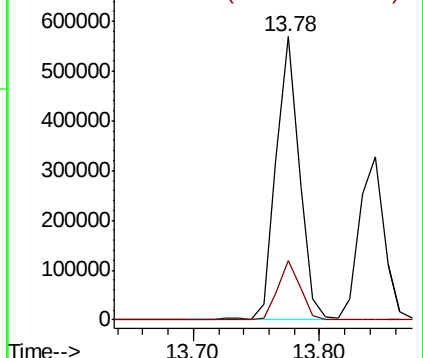
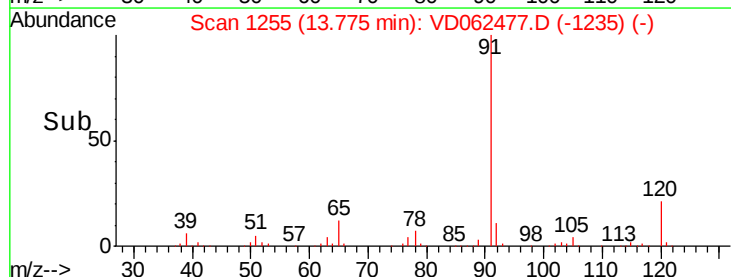
91 100

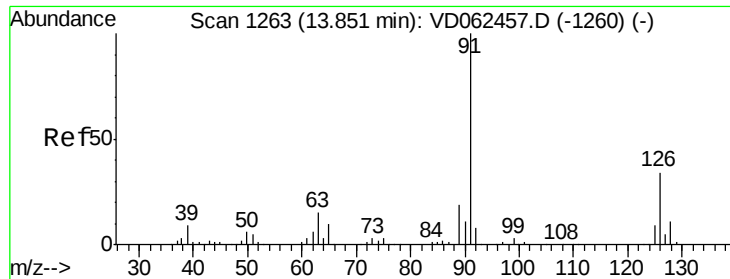
120 21.1 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 22.800 ug/l

RT: 13.84 min Scan# 1262

Delta R.T. -0.01 min

Lab File: VD062477.D

Acq: 21 May 2019 13:28

Instrument :

MSVOA_D

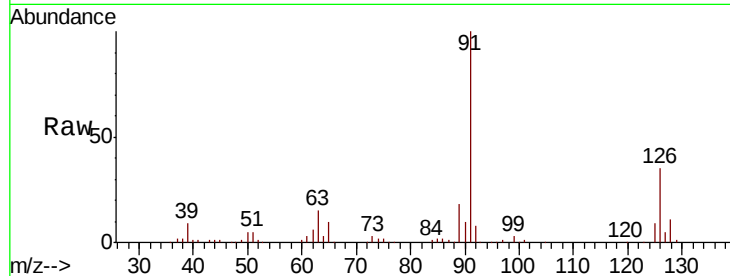
ClientSampleId :

Tot Ion: 91 Resp: 446214

Ion Ratio Lower Upper

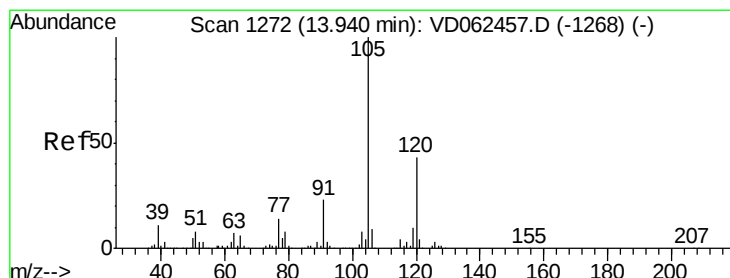
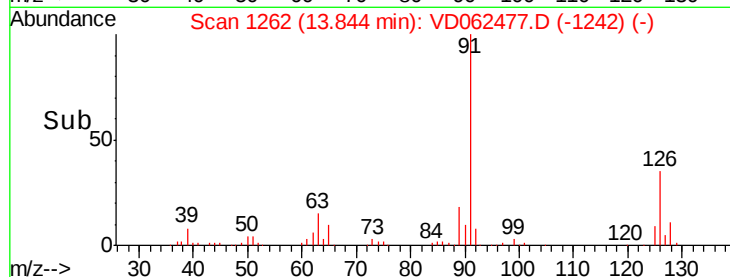
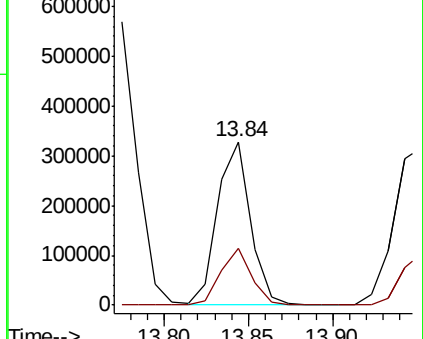
91 100

126 34.5 18.6 55.8



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#80

1,3,5-Trimethylbenzene

Concen: 22.457 ug/l

RT: 13.93 min Scan# 1271

Delta R.T. -0.01 min

Lab File: VD062477.D

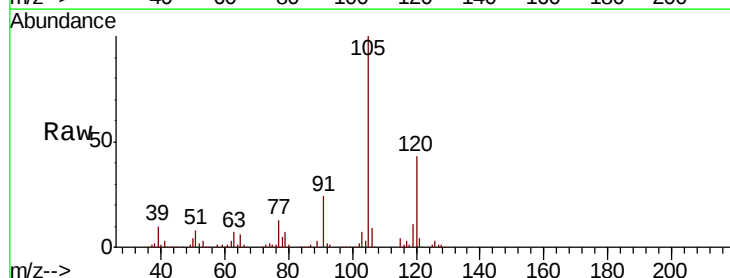
Acq: 21 May 2019 13:28

Tgt Ion: 105 Resp: 541353

Ion Ratio Lower Upper

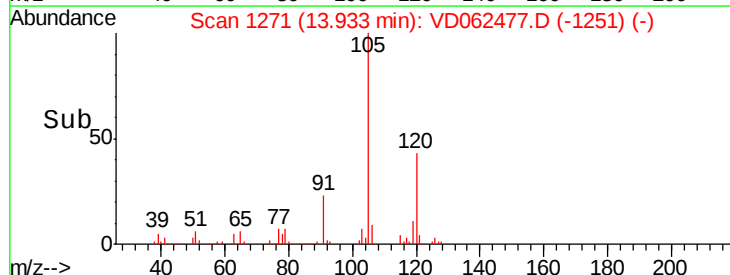
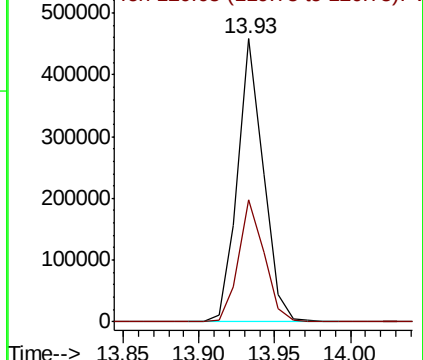
105 100

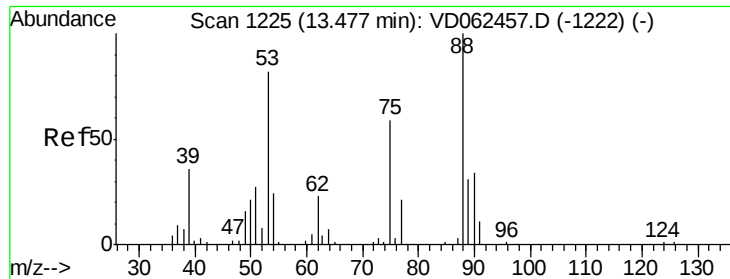
120 43.2 24.0 72.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#81

trans-1,4-Dichloro-2-butene

Concen: 21.429 ug/l

RT: 13.47 min Scan# 1224

Delta R.T. -0.01 min

Lab File: VD062477.D

Acq: 21 May 2019 13:28

Instrument :

MSVOA_D

ClientSampleId :

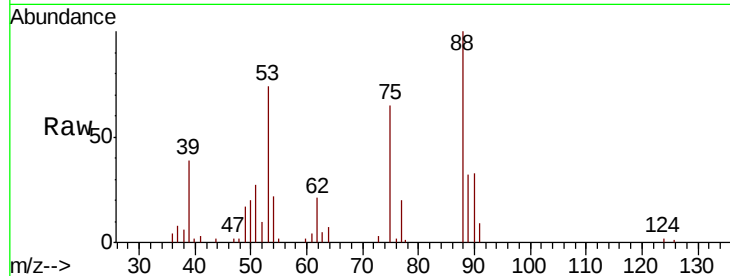
Tot Ion: 75 Resp: 31442

Ion Ratio Lower Upper

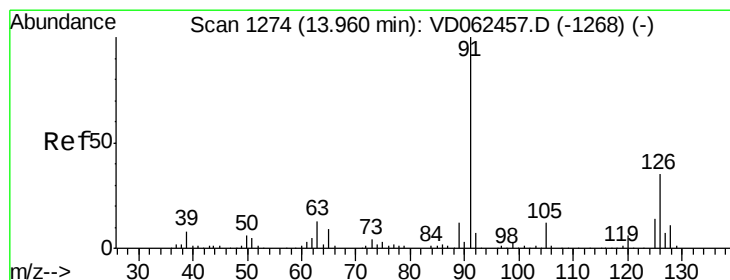
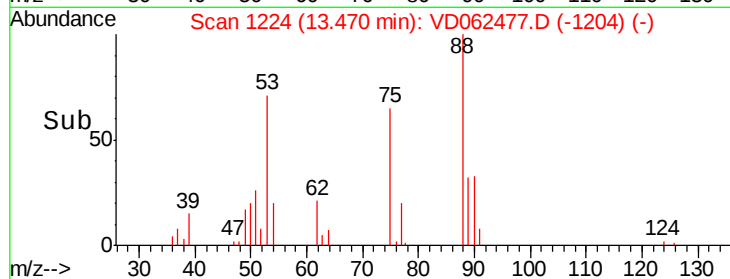
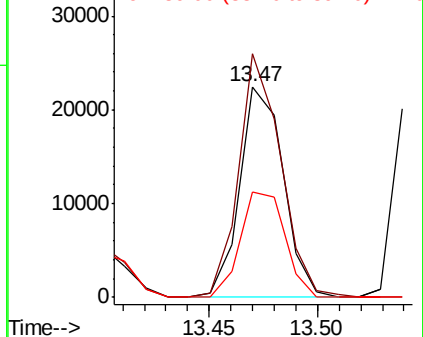
75 100

53 115.4 65.8 98.8#

89 50.1 35.0 52.6



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 89.00 (88.70 to 89.70): VDC



#82

4-Chlorotoluene

Concen: 22.085 ug/l

RT: 13.95 min Scan# 1273

Delta R.T. -0.01 min

Lab File: VD062477.D

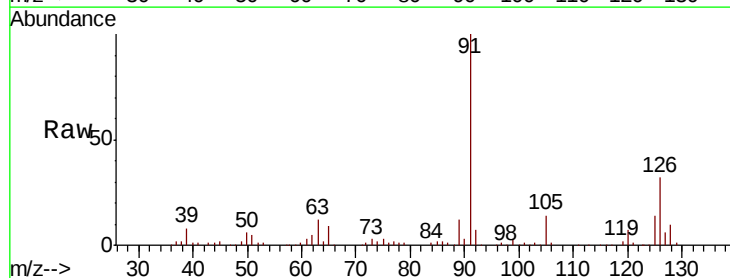
Acq: 21 May 2019 13:28

Tgt Ion: 91 Resp: 497758

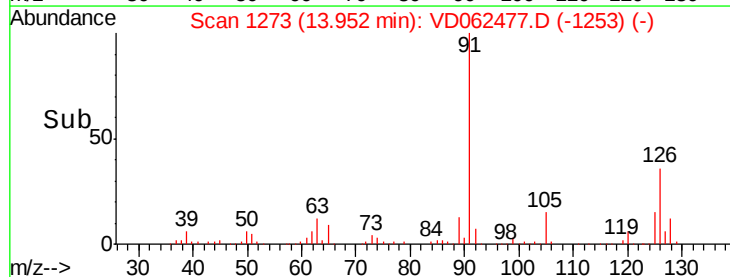
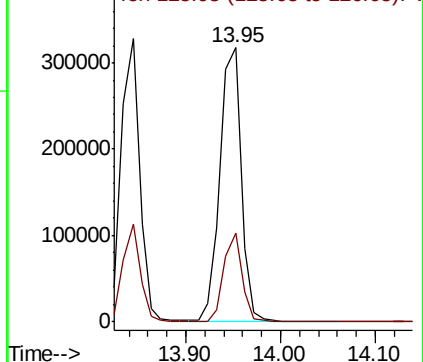
Ion Ratio Lower Upper

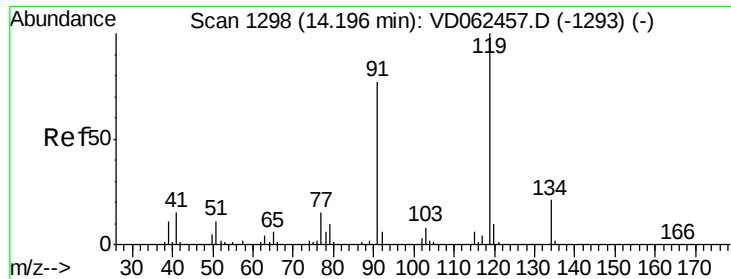
91 100

126 32.3 19.1 57.5



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 125.95 (125.65 to 126.65): V

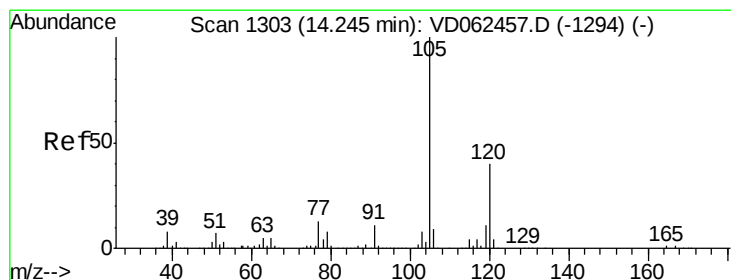
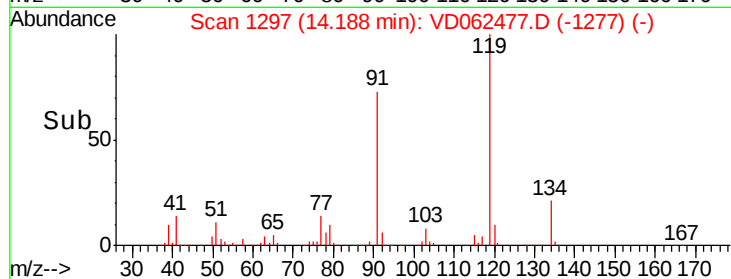
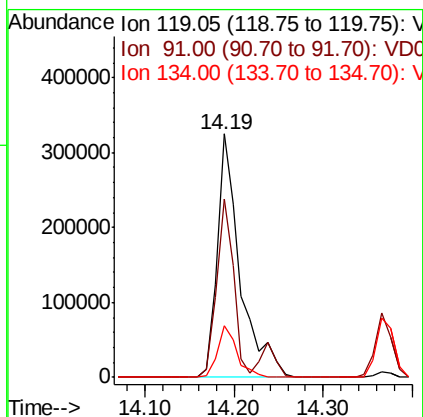
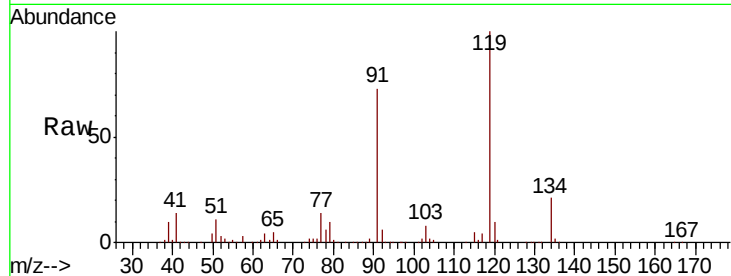




#83
tert-Butylbenzene
Concen: 21.719 ug/l
RT: 14.19 min Scan# 1297
Delta R.T. -0.01 min
Lab File: VD062477.D
Acq: 21 May 2019 13:28

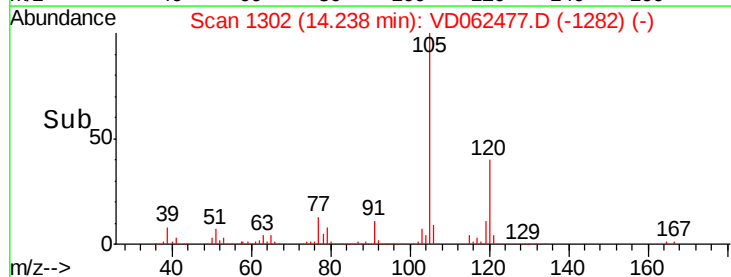
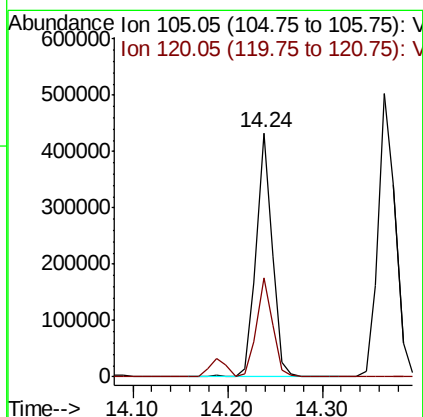
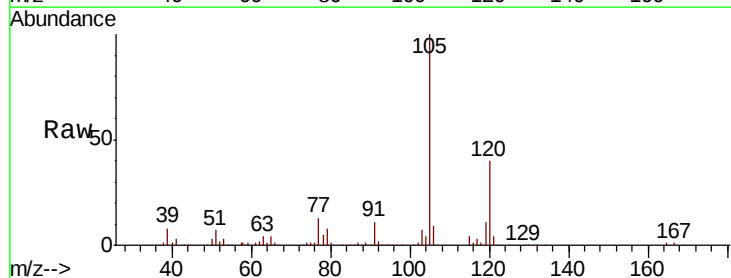
Instrument :
MSVOA_D
ClientSampleId :

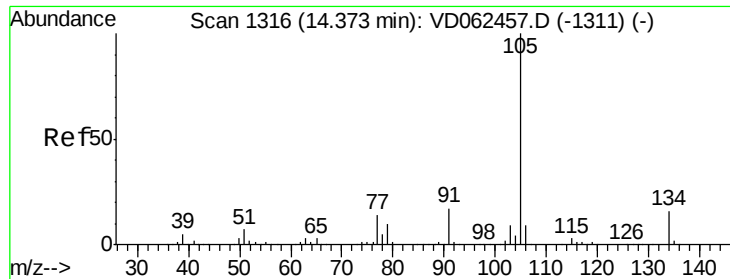
Tot Ion:119 Resp: 580745
Ion Ratio Lower Upper
119 100
91 73.2 34.2 102.6
134 21.3 12.0 36.0



#84
1,2,4-Trimethylbenzene
Concen: 20.745 ug/l
RT: 14.24 min Scan# 1302
Delta R.T. -0.01 min
Lab File: VD062477.D
Acq: 21 May 2019 13:28

Tgt Ion:105 Resp: 512416
Ion Ratio Lower Upper
105 100
120 40.4 23.1 69.2

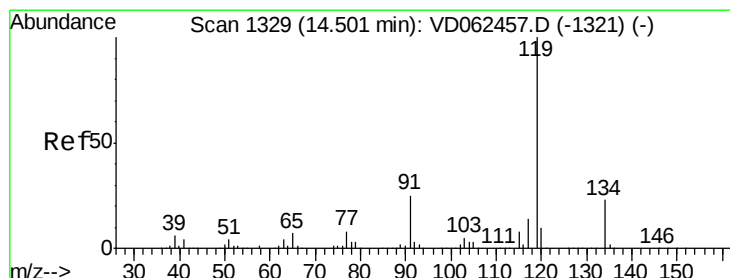
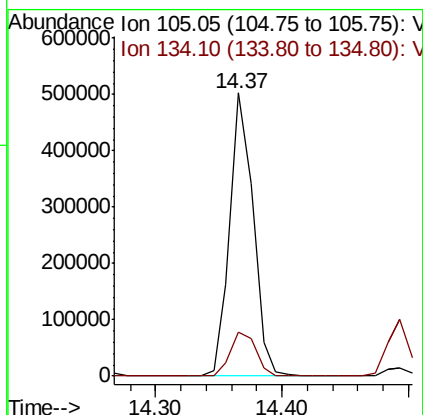
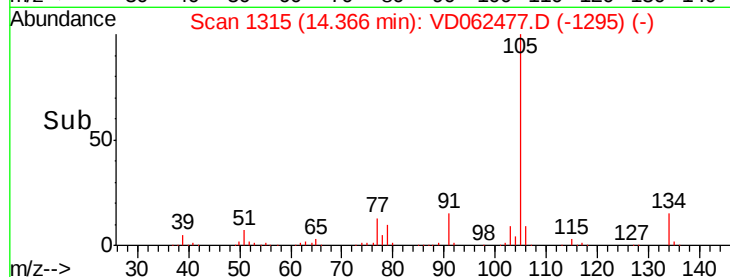
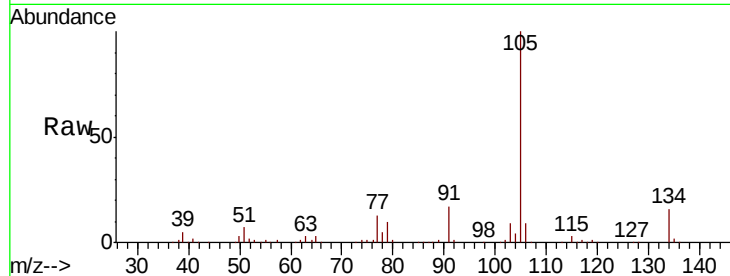




#85
 sec-Butylbenzene
 Concen: 23.139 ug/l
 RT: 14.37 min Scan# 1315
 Delta R.T. -0.01 min
 Lab File: VD062477.D
 Acq: 21 May 2019 13:28

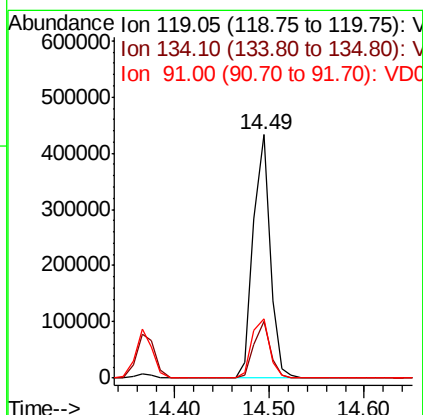
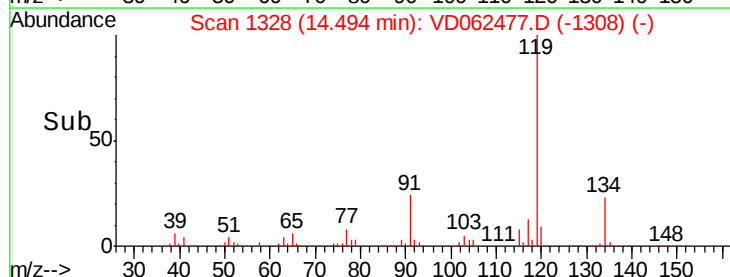
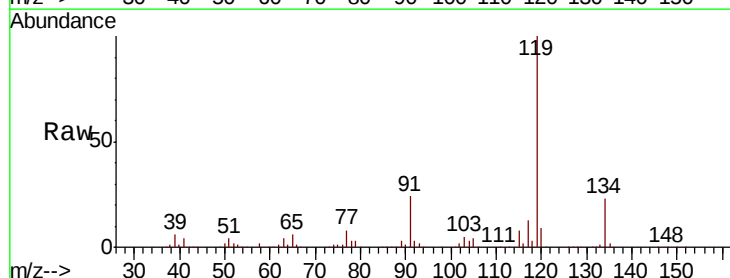
Instrument :
 MSVOA_D
 ClientSampled :

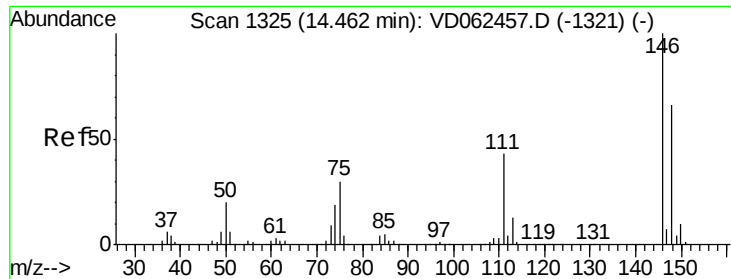
Tot Ion:105 Resp: 645154
 Ion Ratio Lower Upper
 105 100
 134 15.6 8.9 26.7



#86
 p-Isopropyltoluene
 Concen: 21.329 ug/l
 RT: 14.49 min Scan# 1328
 Delta R.T. -0.01 min
 Lab File: VD062477.D
 Acq: 21 May 2019 13:28

Tgt Ion:119 Resp: 538922
 Ion Ratio Lower Upper
 119 100
 134 23.2 12.8 38.3
 91 24.4 10.7 32.1

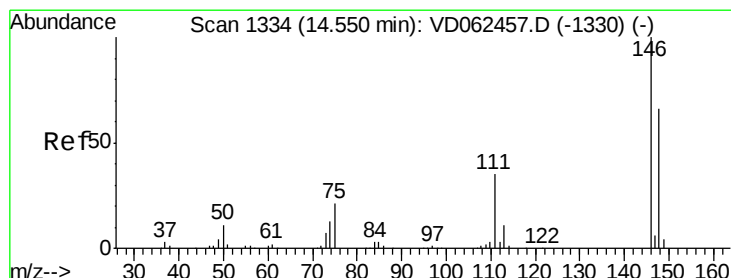
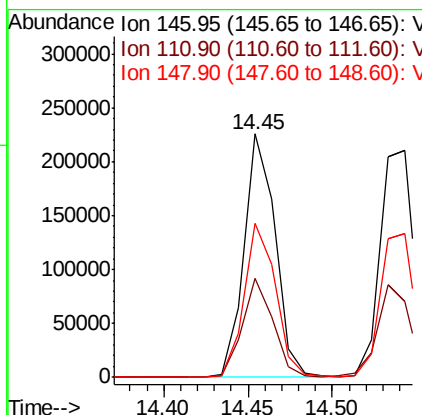
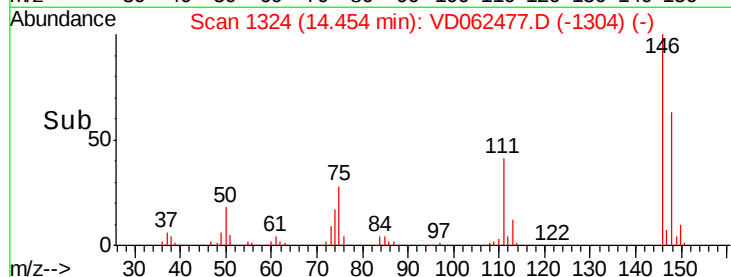
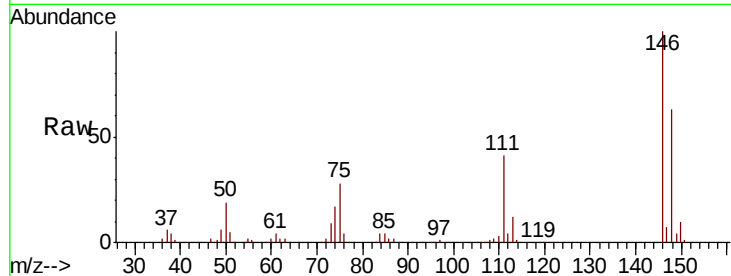




#87
 1,3-Dichlorobenzene
 Concen: 20.750 ug/l
 RT: 14.45 min Scan# 1324
 Delta R.T. -0.01 min
 Lab File: VD062477.D
 Acq: 21 May 2019 13:28

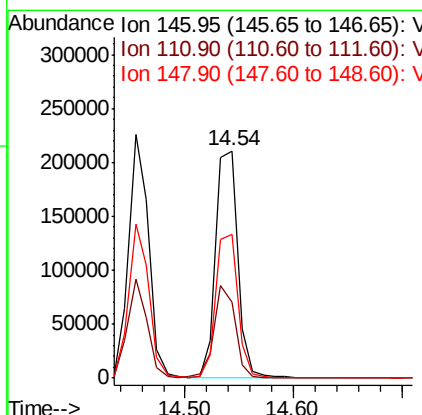
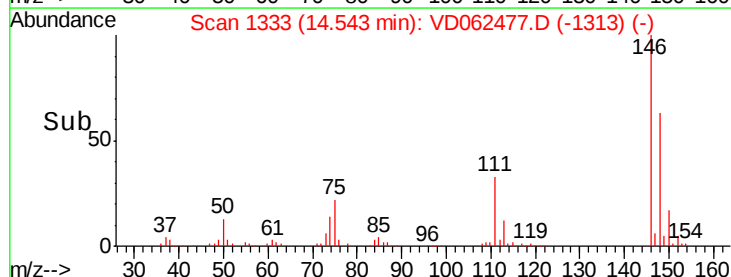
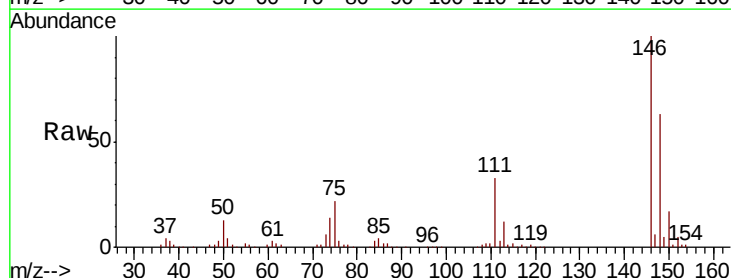
Instrument :
 MSVOA_D
 ClientSampled :

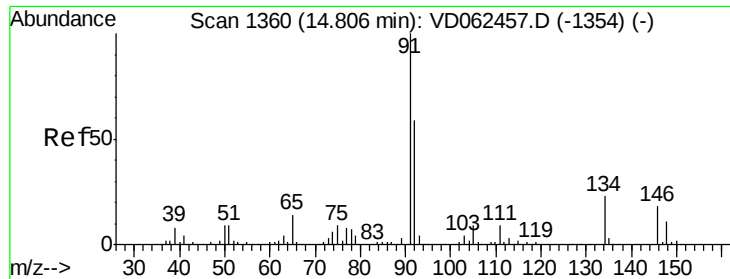
Tot Ion:146 Resp: 289407
 Ion Ratio Lower Upper
 146 100
 111 40.5 20.0 60.0
 148 63.2 31.8 95.4



#88
 1,4-Dichlorobenzene
 Concen: 22.401 ug/l
 RT: 14.54 min Scan# 1333
 Delta R.T. -0.01 min
 Lab File: VD062477.D
 Acq: 21 May 2019 13:28

Tgt Ion:146 Resp: 301489
 Ion Ratio Lower Upper
 146 100
 111 33.3 20.2 60.5
 148 63.2 32.0 96.2





#89

n-Butylbenzene

Concen: 21.879 ug/l

RT: 14.80 min Scan# 1359

Delta R.T. -0.01 min

Lab File: VD062477.D

Acq: 21 May 2019 13:28

Instrument :

MSVOA_D

ClientSampleId :

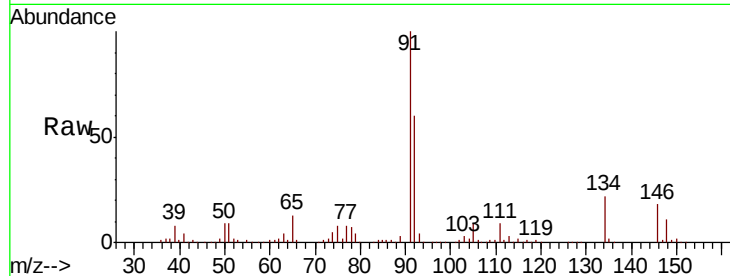
Tot Ion: 91 Resp: 533506

Ion Ratio Lower Upper

91 100

92 60.4 30.3 91.0

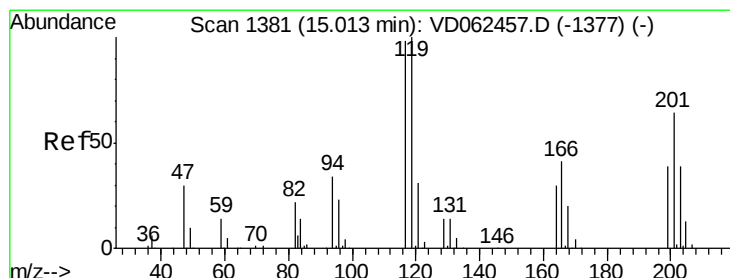
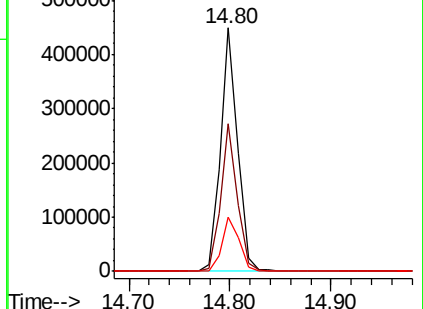
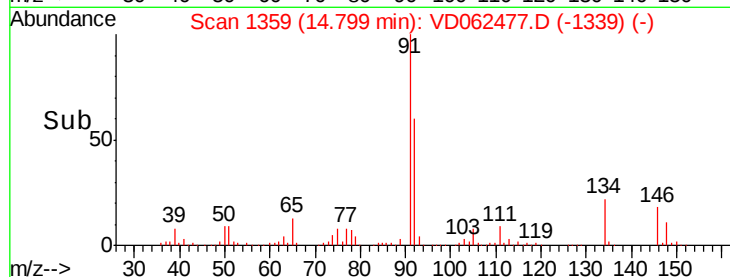
134 22.0 14.5 43.6



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 92.00 (91.70 to 92.70): VDC

Ion 134.10 (133.80 to 134.80): VDC



#90

Hexachloroethane

Concen: 21.177 ug/l

RT: 15.01 min Scan# 1380

Delta R.T. -0.01 min

Lab File: VD062477.D

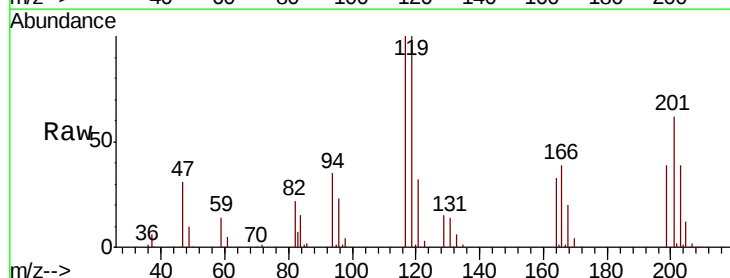
Acq: 21 May 2019 13:28

Tgt Ion: 117 Resp: 147882

Ion Ratio Lower Upper

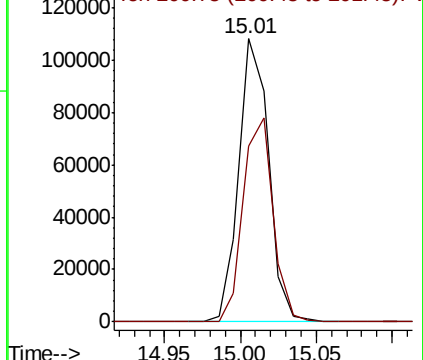
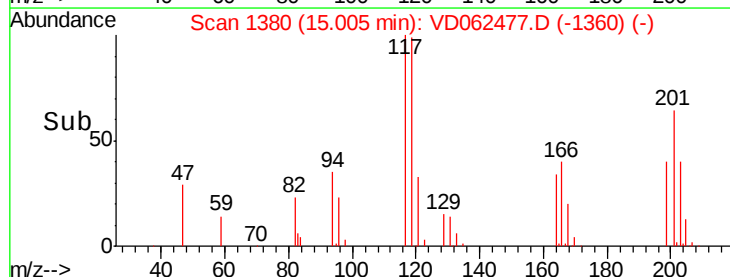
117 100

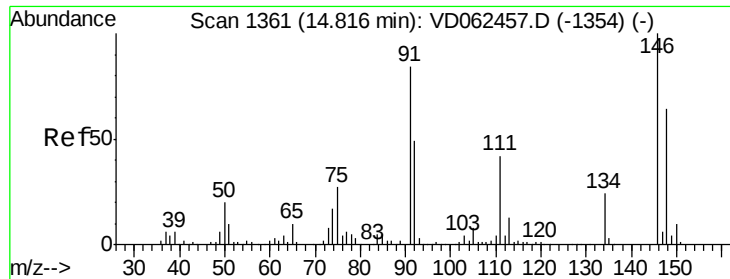
201 62.2 30.2 90.6



Abundance Ion 116.85 (116.55 to 117.55): VDC

Ion 200.75 (200.45 to 201.45): VDC





#91

1,2-Dichlorobenzene

Concen: 22.596 ug/l

RT: 14.81 min Scan# 1360

Delta R.T. -0.01 min

Lab File: VD062477.D

Acq: 21 May 2019 13:28

Instrument :

MSVOA_D

ClientSampled :

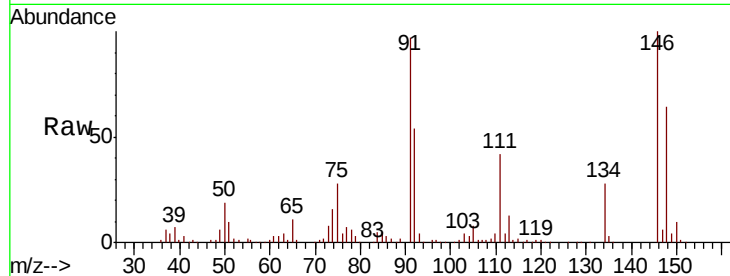
Tot Ion:146 Resp: 267983

Ion Ratio Lower Upper

146 100

111 41.5 20.0 59.9

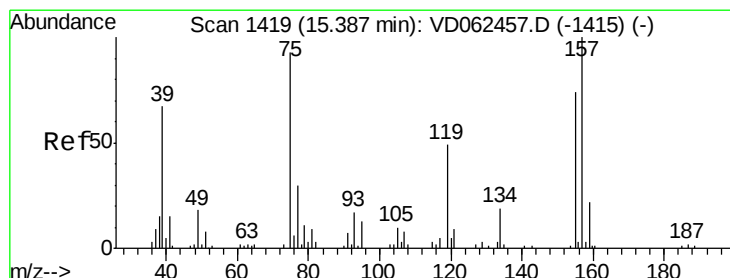
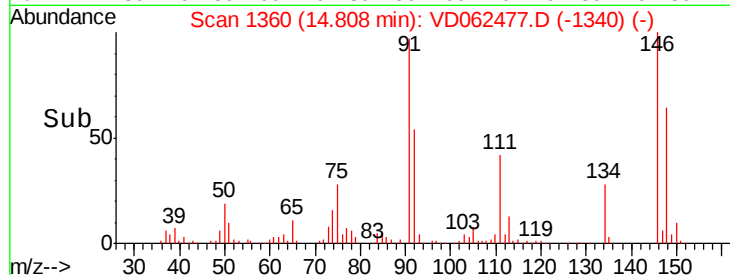
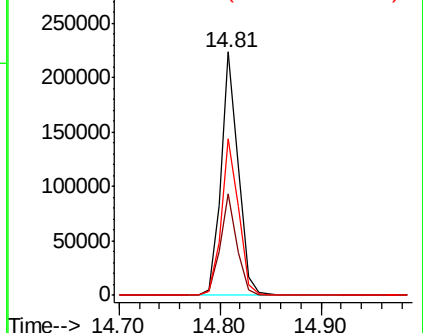
148 64.2 32.3 96.8



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 21.489 ug/l

RT: 15.38 min Scan# 1418

Delta R.T. -0.01 min

Lab File: VD062477.D

Acq: 21 May 2019 13:28

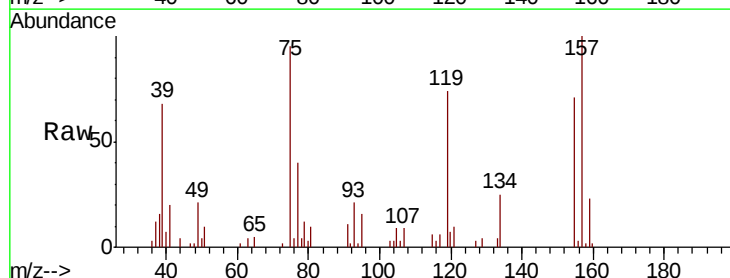
Tgt Ion: 75 Resp: 20487

Ion Ratio Lower Upper

75 100

155 74.2 55.3 165.8

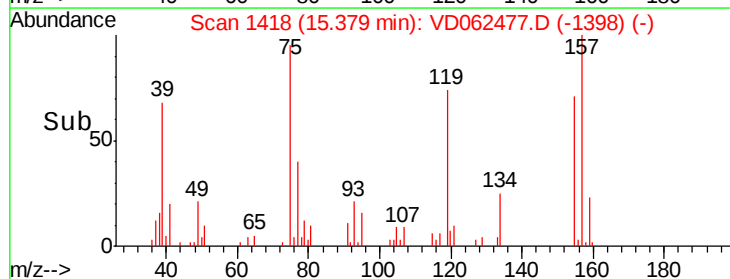
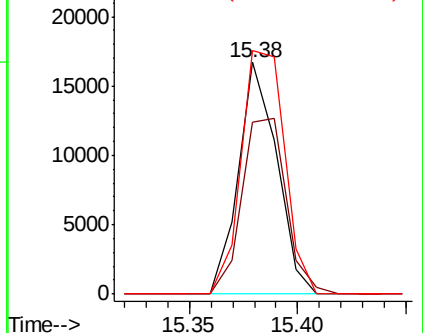
157 105.0 67.8 203.2

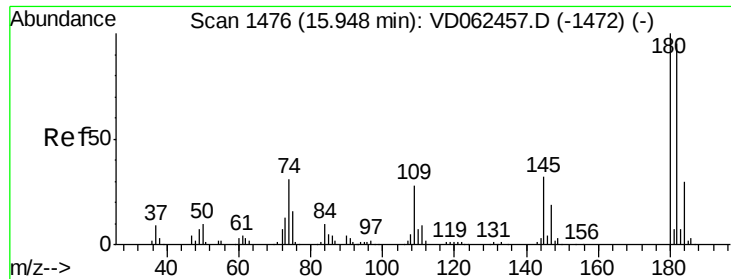


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V

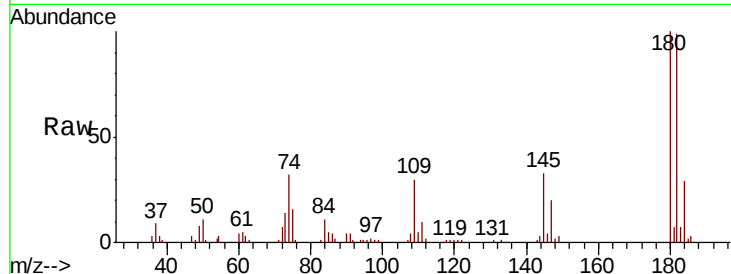




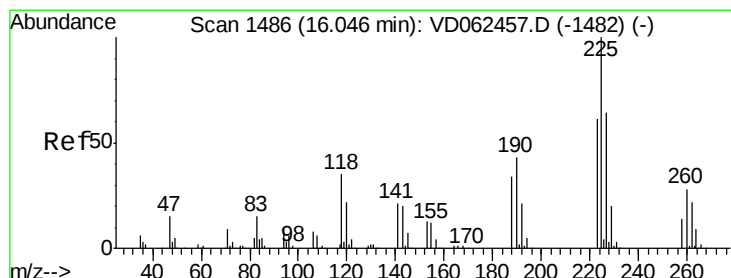
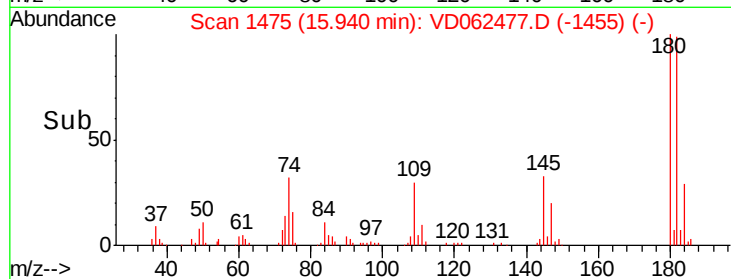
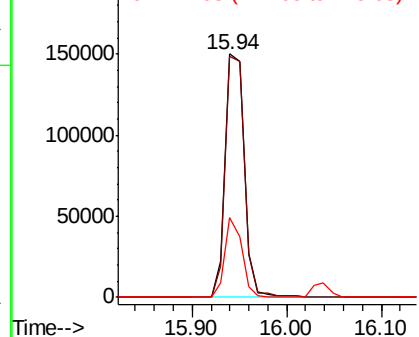
#93
 1,2,4-Trichlorobenzene
 Concen: 22.431 ug/l
 RT: 15.94 min Scan# 1475
 Delta R.T. -0.01 min
 Lab File: VD062477.D
 Acq: 21 May 2019 13:28

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	98.8	49.3	147.8
145	32.7	16.2	48.6

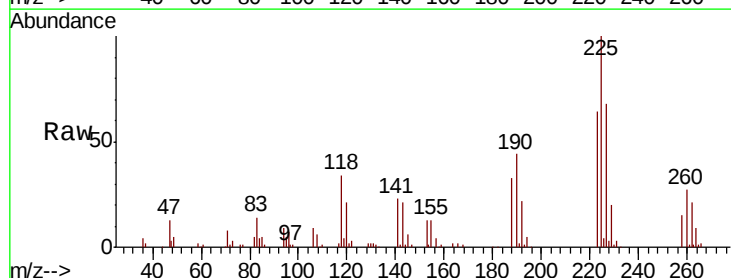


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

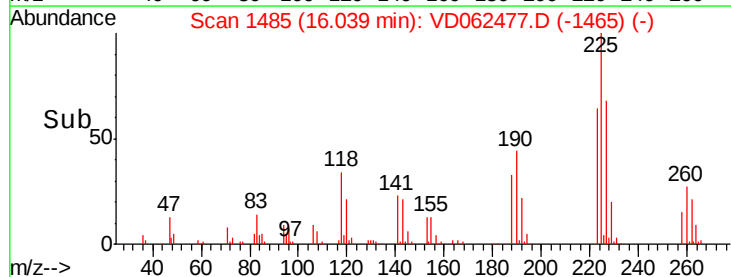
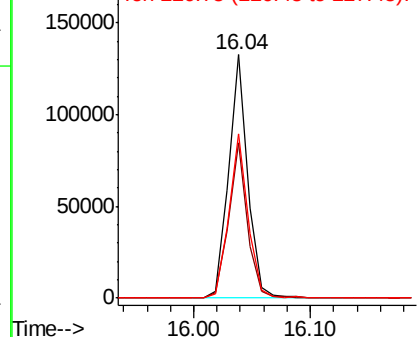


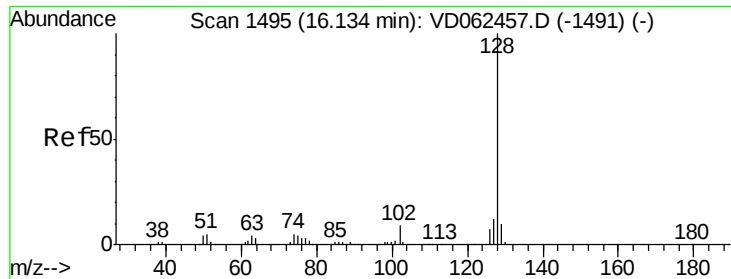
#94
 Hexachlorobutadiene
 Concen: 21.786 ug/l
 RT: 16.04 min Scan# 1485
 Delta R.T. -0.01 min
 Lab File: VD062477.D
 Acq: 21 May 2019 13:28

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.8	30.6	92.0
227	67.6	32.0	96.2



Abundance Ion 224.75 (224.45 to 225.45): V
 Ion 222.75 (222.45 to 223.45): V
 Ion 226.75 (226.45 to 227.45): V

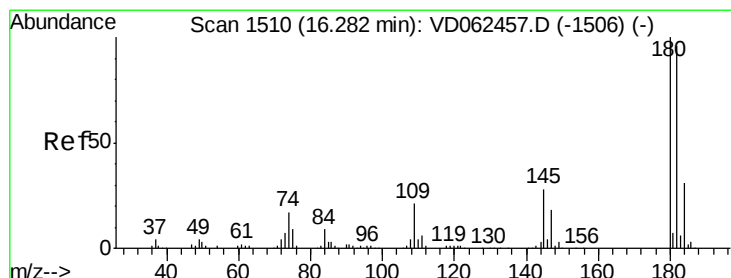
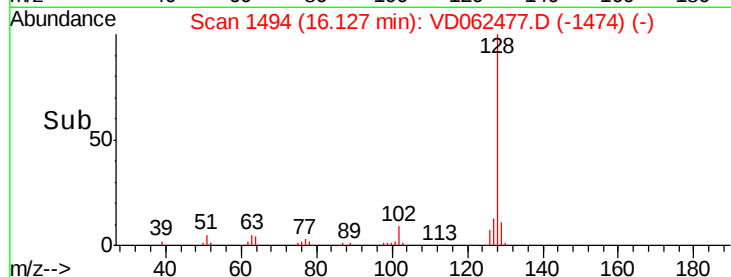
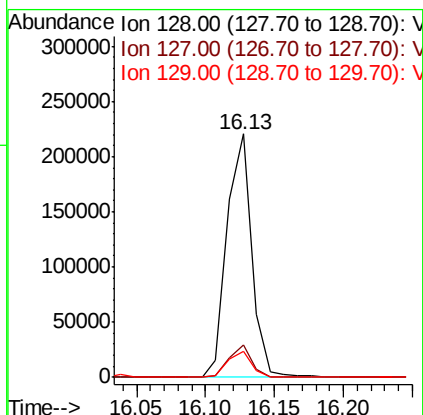
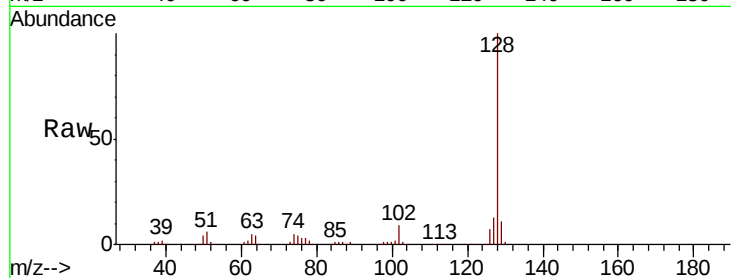




#95
Naphthalene
Concen: 21.646 ug/l
RT: 16.13 min Scan# 1494
Delta R.T. -0.01 min
Lab File: VD062477.D
Acq: 21 May 2019 13:28

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:128 Resp: 276203
Ion Ratio Lower Upper
128 100
127 13.2 9.8 14.8
129 10.7 8.8 13.2



#96
1,2,3-Trichlorobenzene
Concen: 21.041 ug/l
RT: 16.27 min Scan# 1509
Delta R.T. -0.01 min
Lab File: VD062477.D
Acq: 21 May 2019 13:28

Tgt Ion:180 Resp: 161079
Ion Ratio Lower Upper
180 100
182 97.0 47.0 141.0
145 28.7 17.0 51.0

