

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052219\
 Data File : VD062497.D
 Acq On : 22 May 2019 12:00
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: May 23 03:11:12 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	7.03	168	715467	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	8.21	114	1030693	50.00	ug/l	-0.03
63) Chlorobenzene-d5	12.36	117	809243	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.51	152	426891	50.00	ug/l	-0.02

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.44	65	424799	55.47	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	110.94%	
35) Dibromofluoromethane	6.91	113	472076	50.77	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	101.54%	
50) Toluene-d8	10.40	98	999703	49.13	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	98.26%	
62) 4-Bromofluorobenzene	13.55	95	427671	48.05	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	96.10%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.57	85	400990	61.038	ug/l	99
3) Chloromethane	1.75	50	224741	45.344	ug/l	96
4) Vinyl Chloride	1.84	62	239771	45.972	ug/l	99
5) Bromomethane	2.14	94	96445	42.853	ug/l	99
6) Chloroethane	2.25	64	94809	37.577	ug/l	96
7) Trichlorofluoromethane	2.53	101	370089	30.711	ug/l	93
8) Diethyl Ether	2.86	74	52987	32.595	ug/l	59
9) 1,1,2-Trichlorotrifluoroet	3.14	101	234408	32.696	ug/l	93
10) Methyl Iodide	3.29	142	446371	44.652	ug/l	90
11) Tert butyl alcohol	4.06	59	93921	265.682	ug/l	98
12) 1,1-Dichloroethene	3.12	96	167566	31.625	ug/l	80
13) Acrolein	3.03	56	50350	171.509	ug/l	95
14) Allyl chloride	3.61	41	318100	40.717	ug/l #	81
15) Acrylonitrile	4.18	53	222279	274.403	ug/l	88
16) Acetone	3.21	43	374791	273.090	ug/l #	88
17) Carbon Disulfide	3.36	76	671940	41.874	ug/l	100
18) Methyl Acetate	3.63	43	91455	38.618	ug/l	93
19) Methyl tert-butyl Ether	4.23	73	710852	58.085	ug/l	94
20) Methylene Chloride	3.80	84	276273	46.778	ug/l	97
21) trans-1,2-Dichloroethene	4.20	96	345164	55.646	ug/l	86
22) Diisopropyl ether	5.11	45	941512	56.618	ug/l	92
23) Vinyl Acetate	5.04	43	2854582	284.087	ug/l	98
24) 1,1-Dichloroethane	4.97	63	582000	54.342	ug/l	98
25) 2-Butanone	6.06	43	530427	369.530	ug/l	96
26) 2,2-Dichloropropane	6.00	77	705228	61.086	ug/l	88
27) cis-1,2-Dichloroethene	6.02	96	394446	58.973	ug/l	94
28) Bromochloromethane	6.42	49	199421	51.881	ug/l	90
29) Tetrahydrofuran	6.44	42	192853	281.318	ug/l	99
30) Chloroform	6.65	83	791243	57.950	ug/l	97
31) Cyclohexane	6.94	56	405481	56.073	ug/l	95
32) 1,1,1-Trichloroethane	6.85	97	787726	57.145	ug/l	98
36) 1,1-Dichloropropene	7.13	75	528541	53.637	ug/l	96
37) Ethyl Acetate	6.17	43	211278	55.191	ug/l #	89
38) Carbon Tetrachloride	7.09	117	823669	56.241	ug/l	98

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.85	83	476328	58.606	ug/l	97
40) Benzene	7.44	78	1050461	54.346	ug/l	98
41) Methacrylonitrile	6.42	41	261175	54.322	ug/l #	85
42) 1,2-Dichloroethane	7.57	62	539510	52.710	ug/l	93
43) Isopropyl Acetate	9.23	43	276226	54.392	ug/l #	90
44) Trichloroethene	8.52	130	404364	52.249	ug/l	85
45) 1,2-Dichloropropane	8.93	63	237162	50.348	ug/l	99
46) Dibromomethane	9.05	93	233010	54.571	ug/l	88
47) Bromodichloromethane	9.37	83	600903	55.321	ug/l	100
48) Methyl methacrylate	9.10	41	189786	55.533	ug/l #	83
49) 1,4-Dioxane	9.07	88	34737	1133.185	ug/l #	90
51) 4-Methyl-2-Pentanone	10.29	43	900818	268.505	ug/l	93
52) Toluene	10.50	92	719601	54.382	ug/l	97
53) t-1,3-Dichloropropene	10.90	75	492986	54.514	ug/l	97
54) cis-1,3-Dichloropropene	10.03	75	520379	55.148	ug/l #	86
55) 1,1,2-Trichloroethane	11.18	97	238341	53.146	ug/l	95
56) Ethyl methacrylate	11.03	69	263641	54.991	ug/l #	80
57) 1,3-Dichloropropane	11.39	76	340488	49.506	ug/l	95
58) 2-Chloroethyl Vinyl ether	9.85	63	591113	240.113	ug/l	100
59) 2-Hexanone	11.52	43	765933	314.125	ug/l	91
60) Dibromochloromethane	11.68	129	452111	52.487	ug/l	97
61) 1,2-Dibromoethane	11.80	107	312197	56.488	ug/l	95
64) Tetrachloroethene	11.25	164	378726	55.894	ug/l	96
65) Chlorobenzene	12.39	112	862656	55.433	ug/l	100
66) 1,1,1,2-Tetrachloroethane	12.51	131	401963	55.956	ug/l	94
67) Ethyl Benzene	12.52	91	1564961	58.384	ug/l	95
68) m/p-Xylenes	12.66	106	1035008	107.569	ug/l	91
69) o-Xylene	13.04	106	472387	52.034	ug/l	80
70) Styrene	13.07	104	835750	54.115	ug/l	96
71) Bromoform	13.22	173	276959	58.055	ug/l	99
73) Isopropylbenzene	13.39	105	1496795	55.625	ug/l	97
74) N-amyl acetate	13.25	43	387180	58.258	ug/l	95
75) 1,1,2,2-Tetrachloroethane	13.69	83	282696	58.234	ug/l	100
76) 1,2,3-Trichloropropane	13.73	75	301150	59.891	ug/l	99
77) Bromobenzene	13.66	156	449213	58.849	ug/l	85
78) n-propylbenzene	13.77	91	1897309	60.872	ug/l	96
79) 2-Chlorotoluene	13.83	91	1069296	56.531	ug/l	95
80) 1,3,5-Trimethylbenzene	13.92	105	1280452	54.958	ug/l	93
81) trans-1,4-Dichloro-2-buten	13.46	75	82669	58.295	ug/l #	62
82) 4-Chlorotoluene	13.94	91	1240482	56.945	ug/l	92
83) tert-Butylbenzene	14.18	119	1453929	56.258	ug/l	90
84) 1,2,4-Trimethylbenzene	14.23	105	1309452	54.849	ug/l	92
85) sec-Butylbenzene	14.36	105	1494395	55.455	ug/l	96
86) p-Isopropyltoluene	14.48	119	1414791	57.934	ug/l	92
87) 1,3-Dichlorobenzene	14.44	146	732794	54.361	ug/l	97
88) 1,4-Dichlorobenzene	14.53	146	711294	54.682	ug/l	96
89) n-Butylbenzene	14.79	91	1306232	55.424	ug/l	94
90) Hexachloroethane	15.00	117	393380	58.286	ug/l	99
91) 1,2-Dichlorobenzene	14.80	146	660707	57.641	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	15.37	75	49454	53.670	ug/l	67

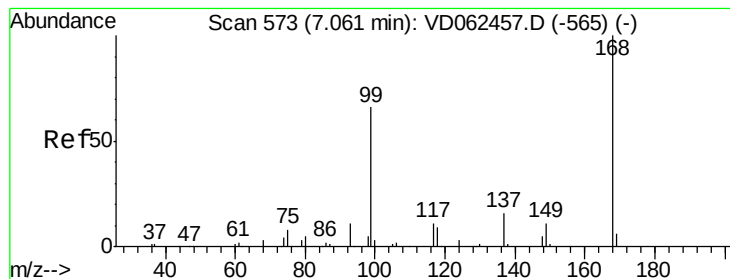
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.94	180	483775	53.601	ug/l	94
94) Hexachlorobutadiene	16.03	225	359734	53.980	ug/l	98
95) Naphthalene	16.12	128	741578	60.132	ug/l	100
96) 1,2,3-Trichlorobenzene	16.26	180	428673	57.937	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 570

Delta R.T. -0.03 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :

MSVOA_D

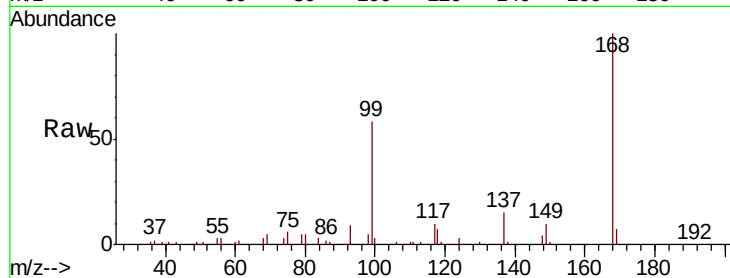
ClientSampleId :

Tot Ion:168 Resp: 715467

Ion Ratio Lower Upper

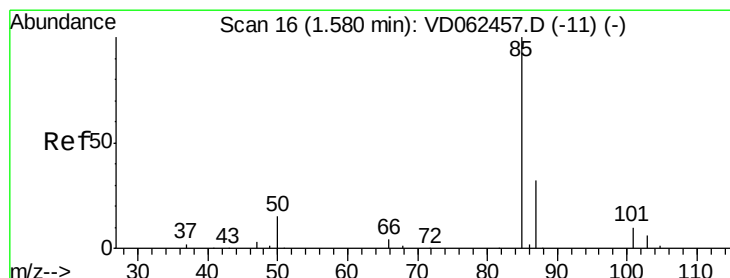
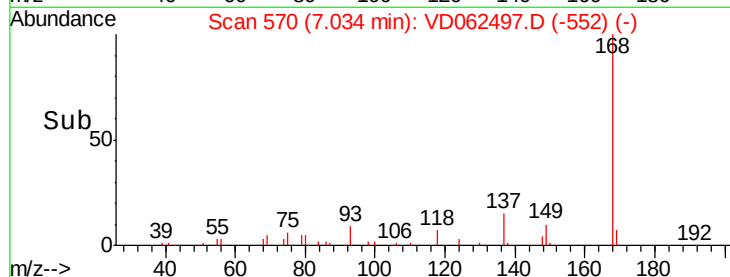
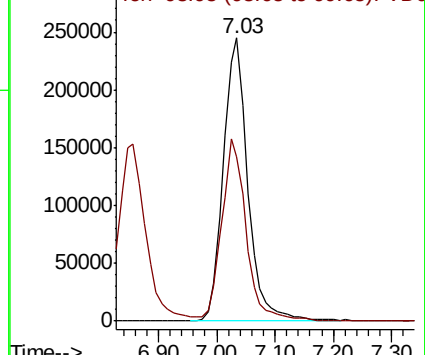
168 100

99 58.0 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): V



#2

Dichlorodifluoromethane

Concen: 61.038 ug/l

RT: 1.57 min Scan# 15

Delta R.T. -0.01 min

Lab File: VD062497.D

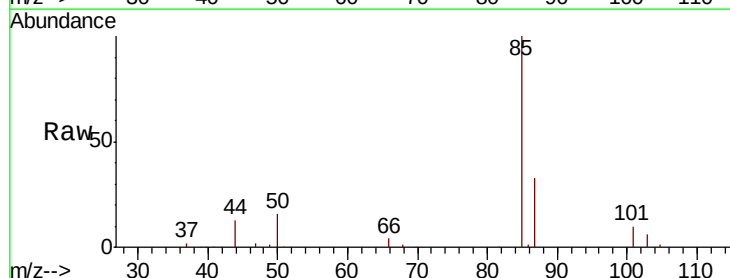
Acq: 22 May 2019 12:00

Tgt Ion: 85 Resp: 400990

Ion Ratio Lower Upper

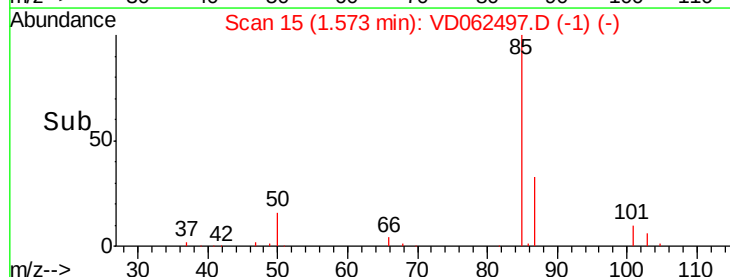
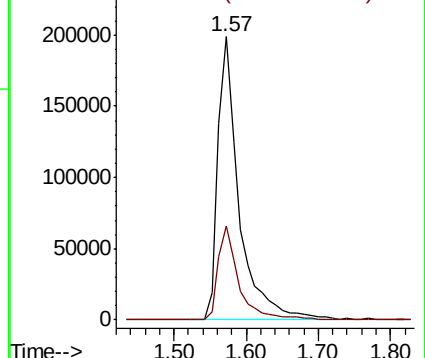
85 100

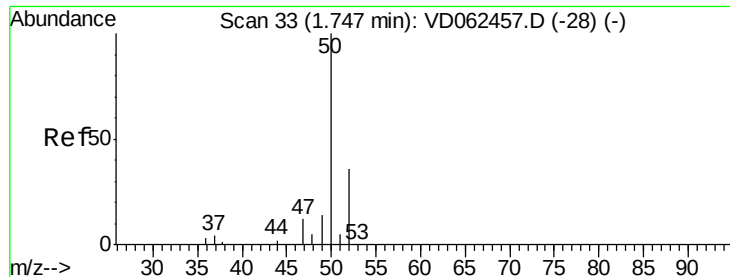
87 33.1 16.2 48.6



Abundance Ion 84.95 (84.65 to 85.65): V

Ion 86.90 (86.60 to 87.60): V





#3

Chloromethane

Concen: 45.344 ug/l

RT: 1.75 min Scan# 33

Delta R.T. 0.00 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :

MSVOA_D

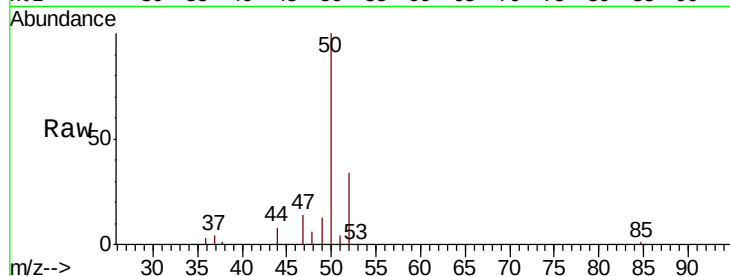
ClientSampled :

Tot Ion: 50 Resp: 224741

Ion Ratio Lower Upper

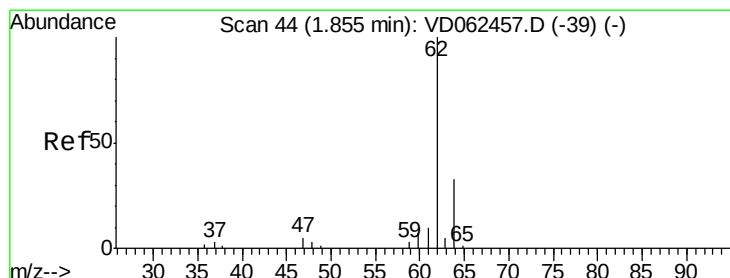
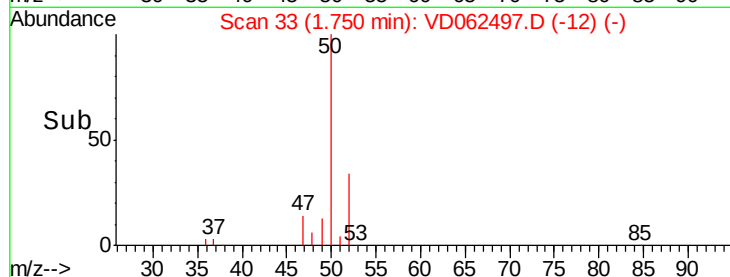
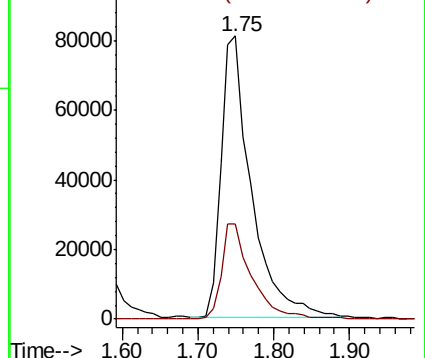
50 100

52 33.8 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: 45.972 ug/l

RT: 1.84 min Scan# 42

Delta R.T. -0.02 min

Lab File: VD062497.D

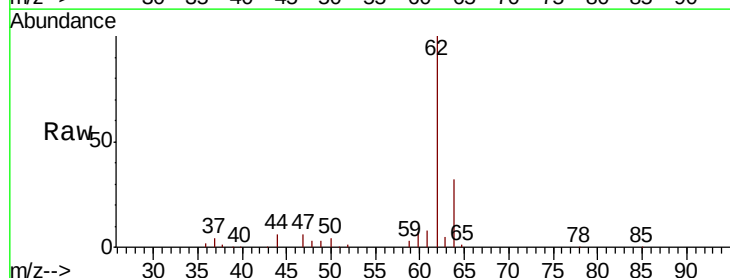
Acq: 22 May 2019 12:00

Tgt Ion: 62 Resp: 239771

Ion Ratio Lower Upper

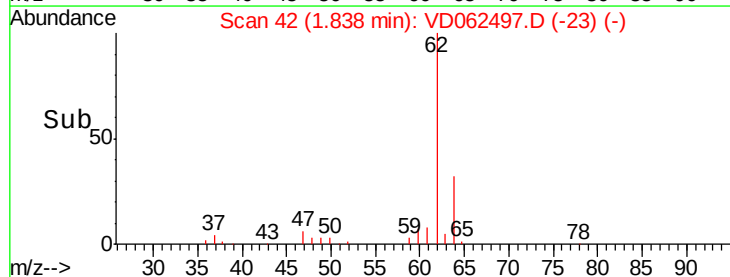
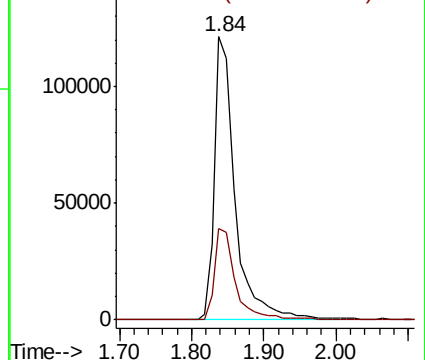
62 100

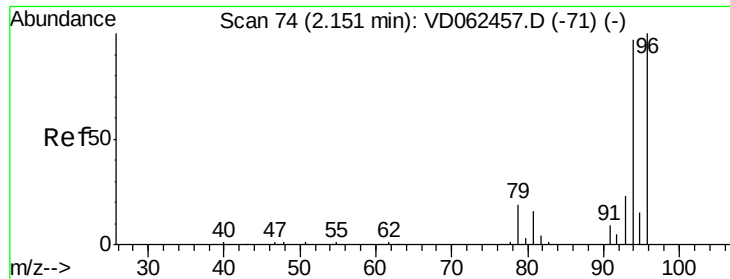
64 32.4 26.5 39.7



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 42.853 ug/l

RT: 2.14 min Scan# 73

Delta R.T. -0.01 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :

MSVOA_D

ClientSampleId :

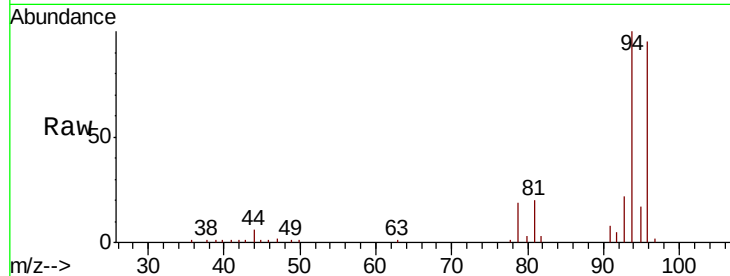
Tot Ion: 94 Resp: 96445

Ion Ratio Lower Upper

94 100

96 94.6 76.6 115.0

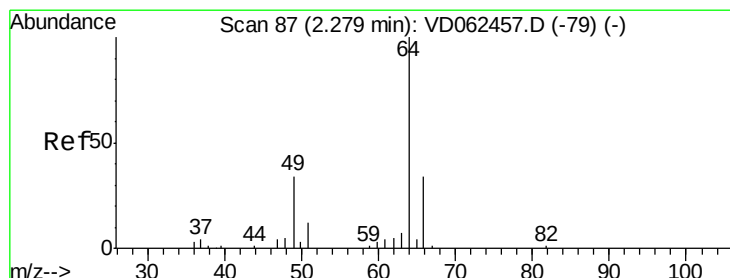
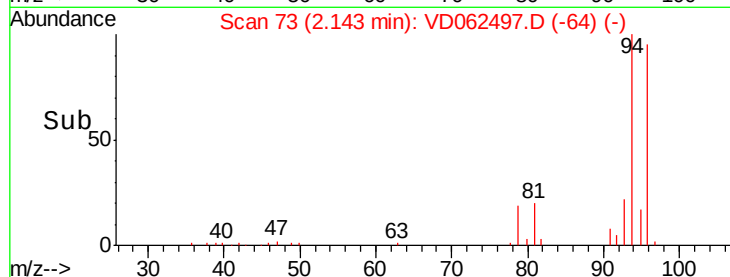
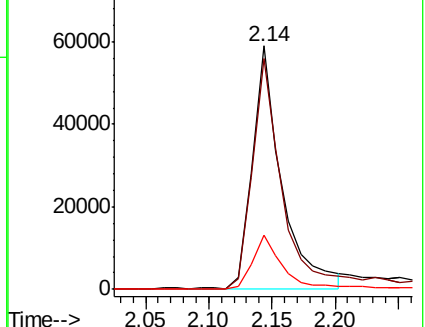
93 22.4 18.5 27.7



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: 37.577 ug/l

RT: 2.25 min Scan# 84

Delta R.T. -0.03 min

Lab File: VD062497.D

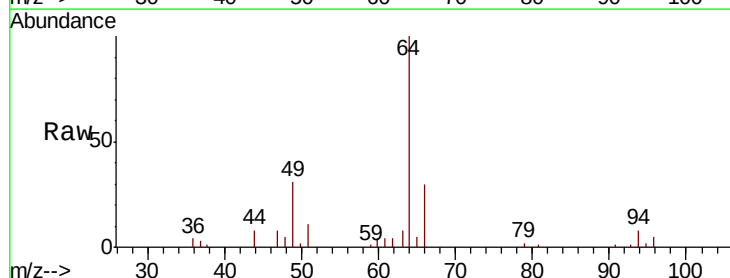
Acq: 22 May 2019 12:00

Tgt Ion: 64 Resp: 94809

Ion Ratio Lower Upper

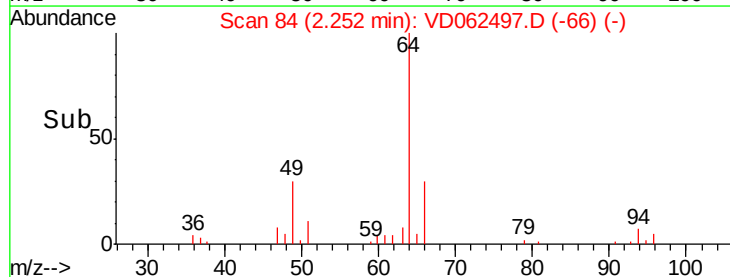
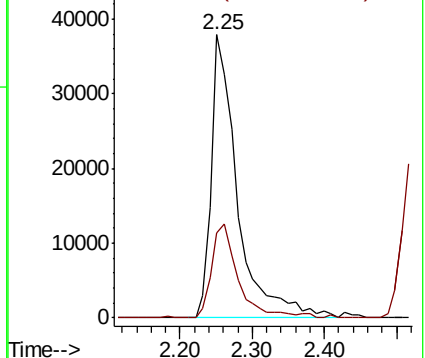
64 100

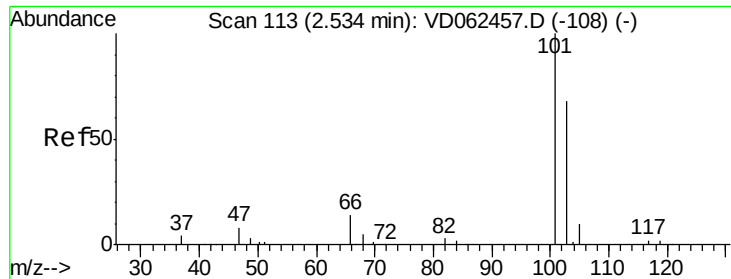
66 30.0 25.6 38.4



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



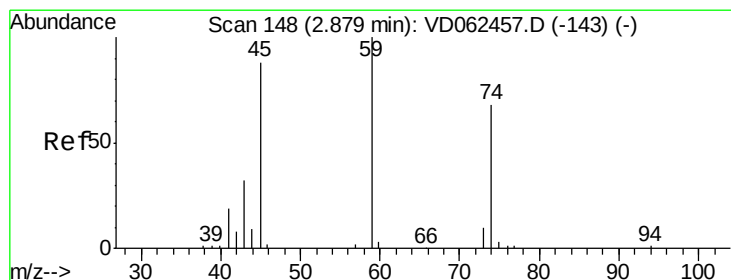
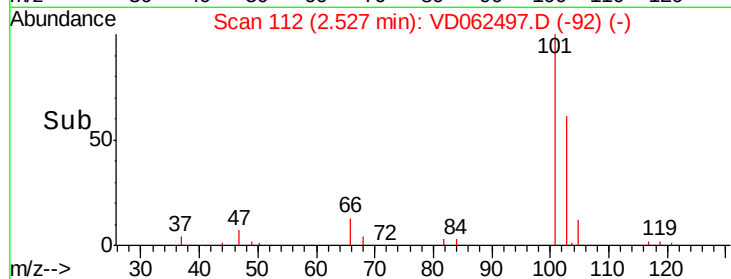
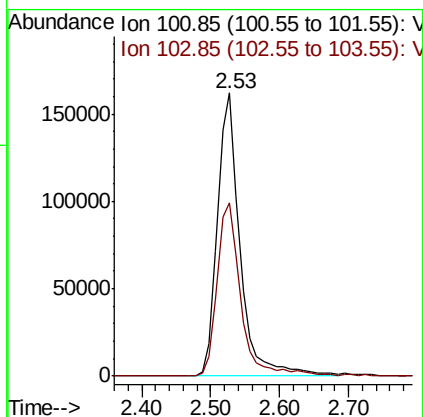
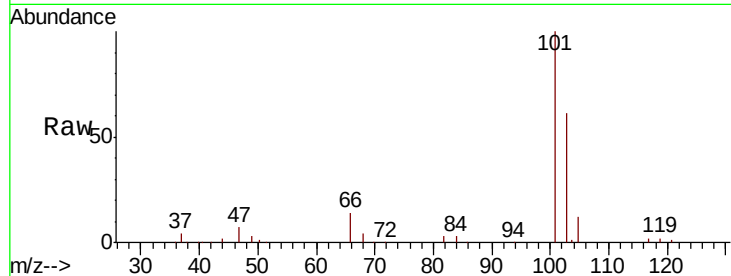


#7

Trichlorofluoromethane
 Concen: 30.711 ug/l
 RT: 2.53 min Scan# 112
 Delta R.T. -0.01 min
 Lab File: VD062497.D
 Acq: 22 May 2019 12:00

Instrument :
 MSVOA_D
 ClientSampleId :

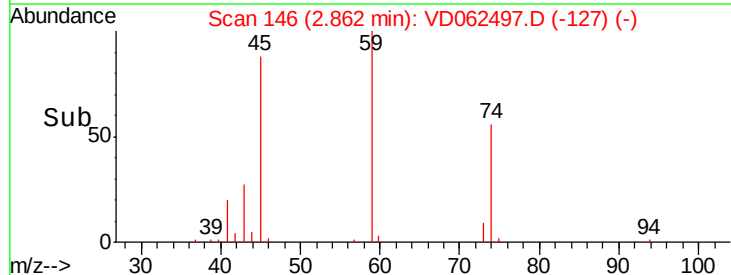
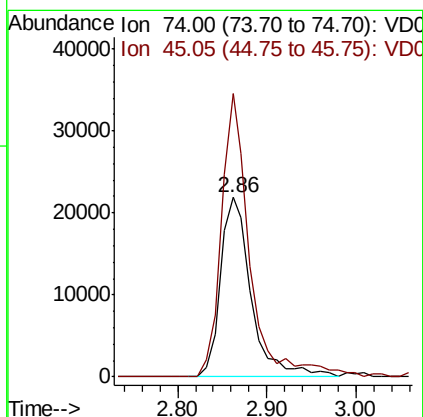
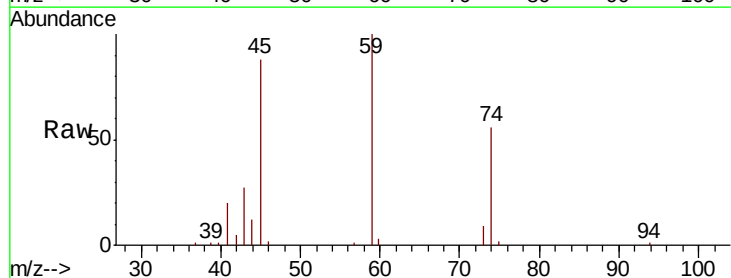
Tot Ion:101 Resp: 370089
 Ion Ratio Lower Upper
 101 100
 103 61.3 53.6 80.4

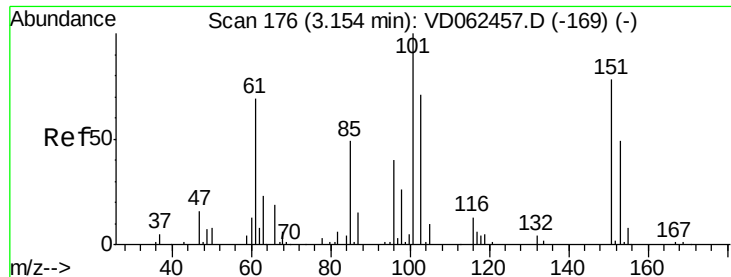


#8

Diethyl Ether
 Concen: 32.595 ug/l
 RT: 2.86 min Scan# 146
 Delta R.T. -0.02 min
 Lab File: VD062497.D
 Acq: 22 May 2019 12:00

Tgt Ion: 74 Resp: 52987
 Ion Ratio Lower Upper
 74 100
 45 157.9 56.9 170.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 32.696 ug/l

RT: 3.14 min Scan# 174

Delta R.T. -0.02 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :

MSVOA_D

ClientSampleId :

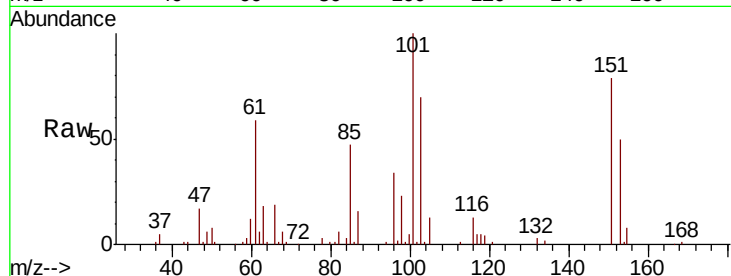
Tot Ion:101 Resp: 234408

Ion Ratio Lower Upper

101 100

85 46.7 32.4 48.6

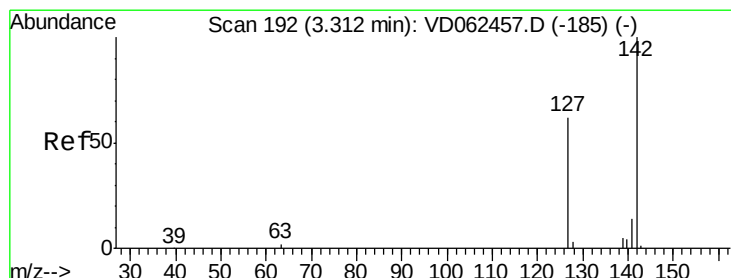
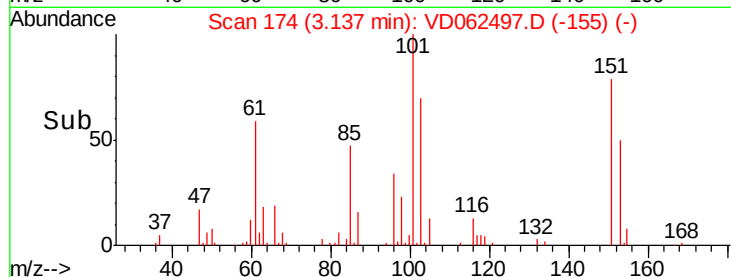
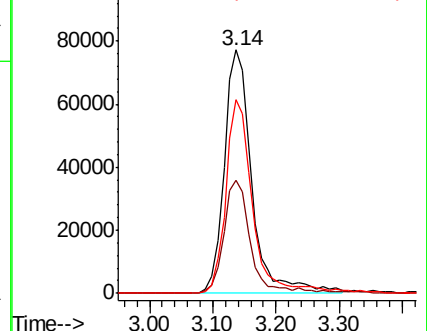
151 79.4 59.4 89.0



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: 44.652 ug/l

RT: 3.29 min Scan# 190

Delta R.T. -0.02 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

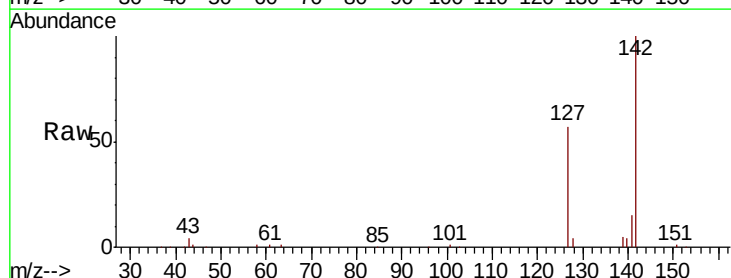
Tgt Ion:142 Resp: 446371

Ion Ratio Lower Upper

142 100

127 56.7 38.8 58.2

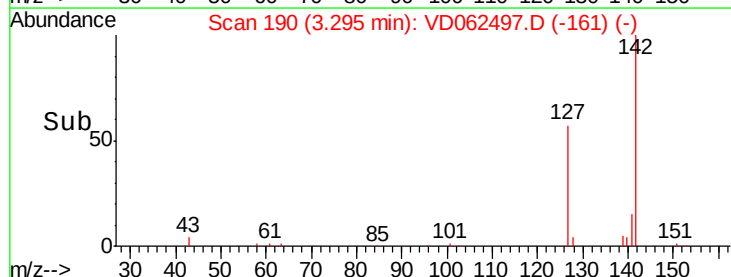
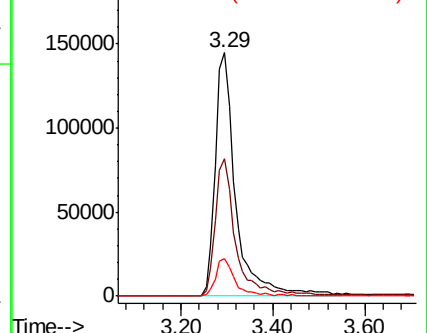
141 15.2 11.4 17.0

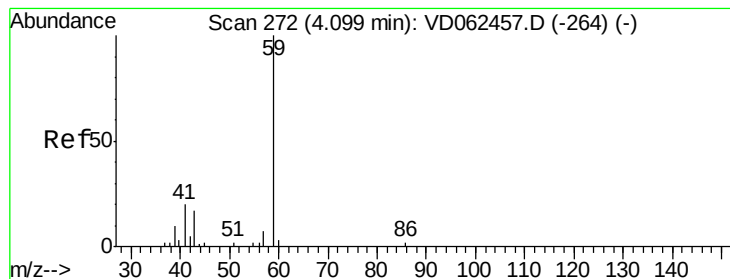


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



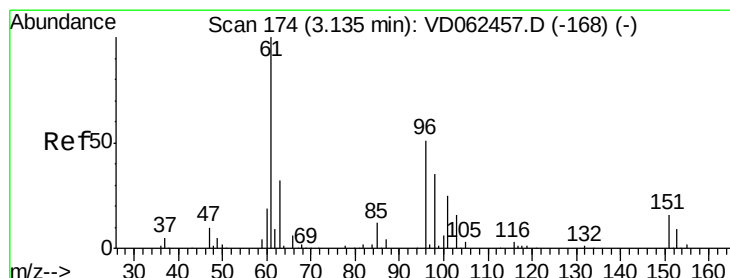
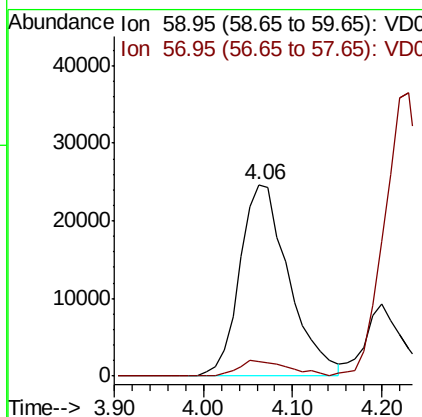
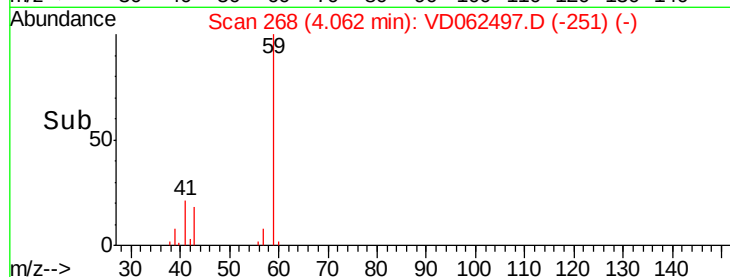
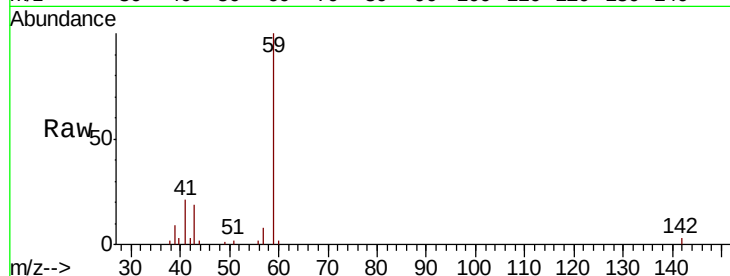


#11

Tert butyl alcohol
Concen: 265.682 ug/l
RT: 4.06 min Scan# 268
Delta R.T. -0.04 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Instrument :
MSVOA_D
ClientSampleId :

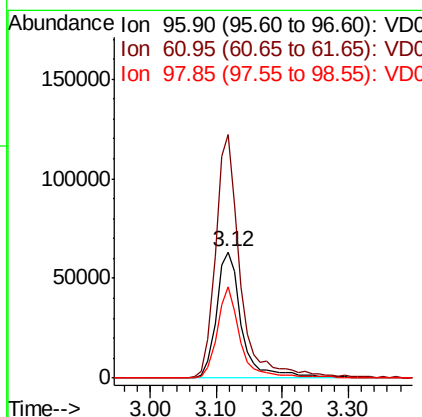
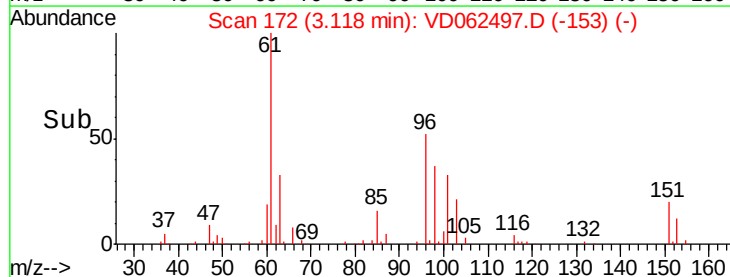
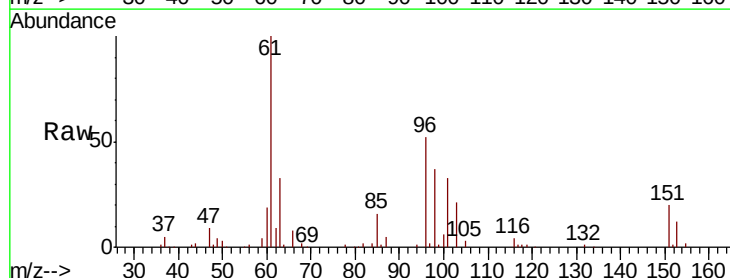
Tot Ion: 59 Resp: 93921
Ion Ratio Lower Upper
59 100
57 7.8 6.9 10.3

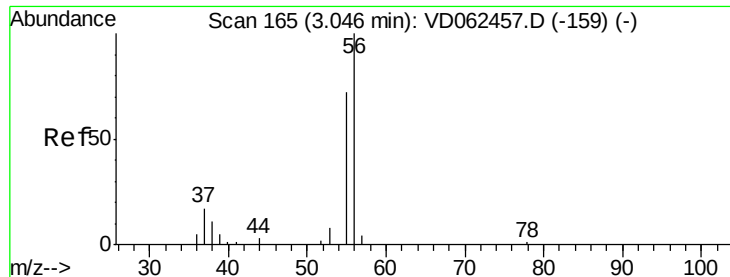


#12

1,1-Dichloroethene
Concen: 31.625 ug/l
RT: 3.12 min Scan# 172
Delta R.T. -0.02 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Tgt Ion: 96 Resp: 167566
Ion Ratio Lower Upper
96 100
61 193.3 129.8 194.8
98 72.1 51.2 76.8





#13

Acrolein

Concen: 171.509 ug/l

RT: 3.03 min Scan# 163

Delta R.T. -0.02 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :

MSVOA_D

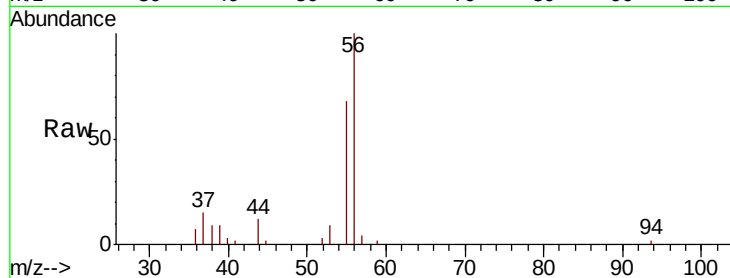
ClientSampleId :

Tot Ion: 56 Resp: 50350

Ion Ratio Lower Upper

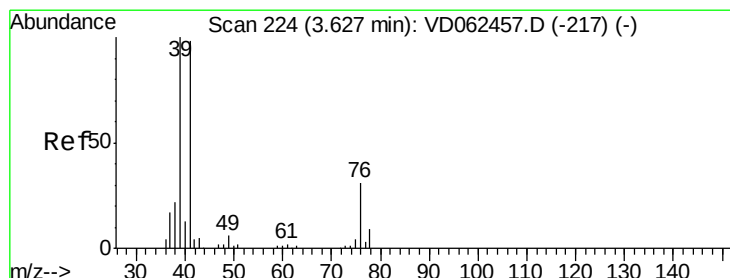
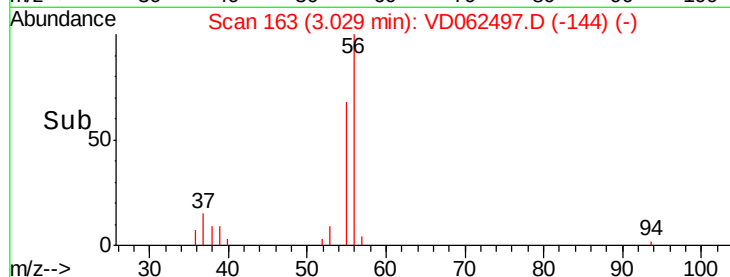
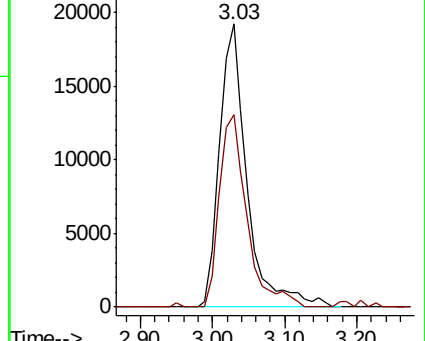
56 100

55 68.1 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: 40.717 ug/l

RT: 3.61 min Scan# 222

Delta R.T. -0.02 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

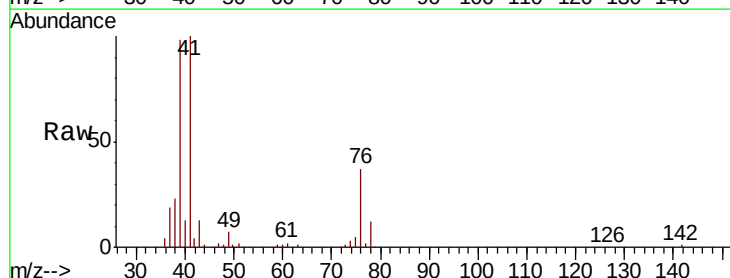
Tgt Ion: 41 Resp: 318100

Ion Ratio Lower Upper

41 100

39 98.5 60.5 90.7#

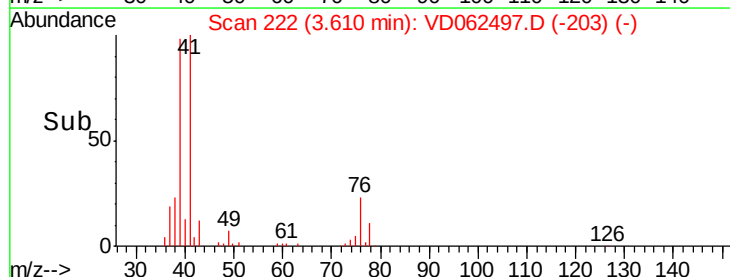
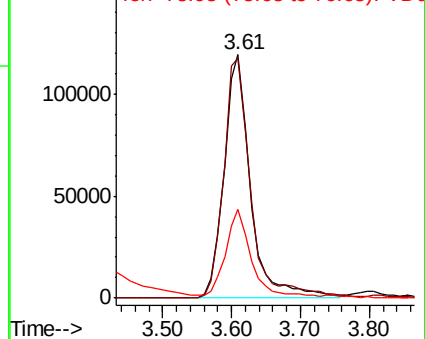
76 36.6 31.8 47.8

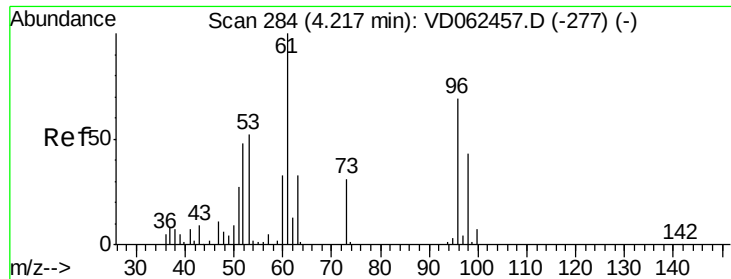


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 274.403 ug/l

RT: 4.18 min Scan# 280

Delta R.T. -0.04 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :
MSVOA_D
ClientSampled :

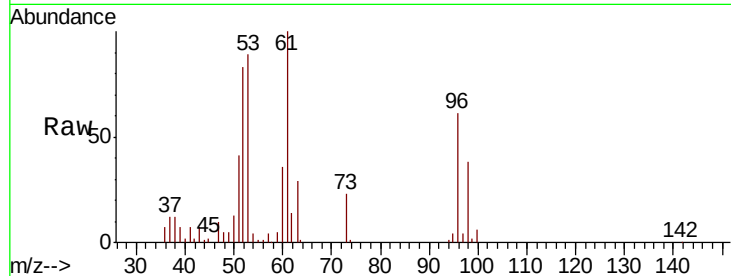
Tot Ion: 53 Resp: 222279

Ion Ratio Lower Upper

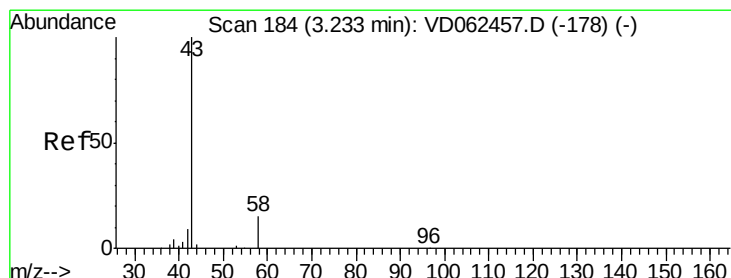
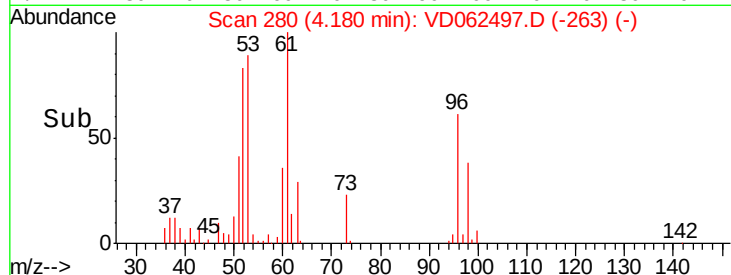
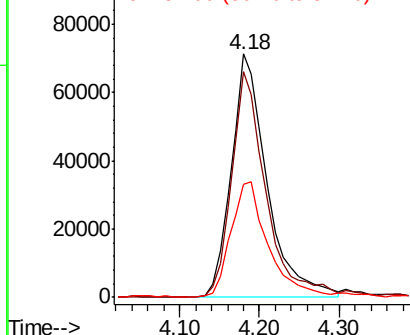
53 100

52 92.9 65.0 97.4

51 46.3 32.6 48.8



Abundance Ion 53.00 (52.70 to 53.70): VDC
Ion 52.00 (51.70 to 52.70): VDC
Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 273.090 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.03 min

Lab File: VD062497.D

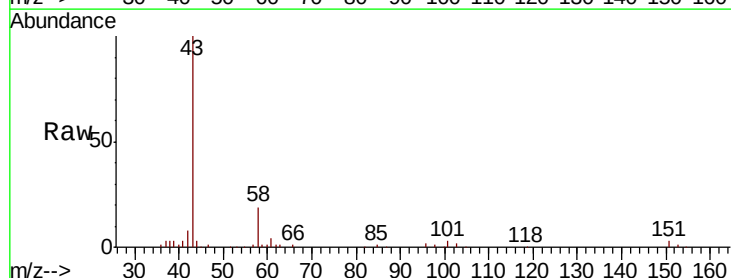
Acq: 22 May 2019 12:00

Tgt Ion: 43 Resp: 374791

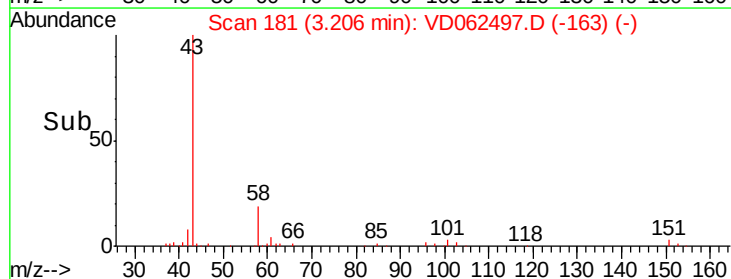
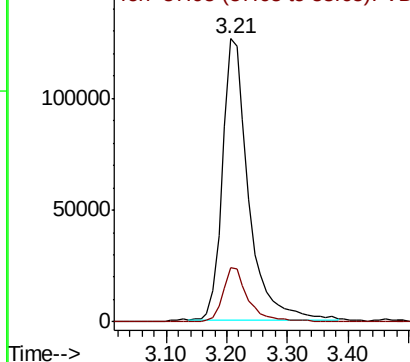
Ion Ratio Lower Upper

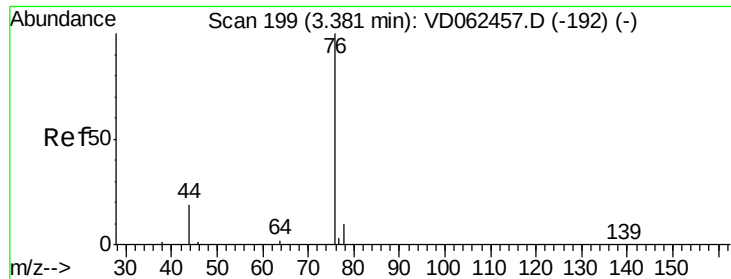
43 100

58 19.1 19.9 29.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

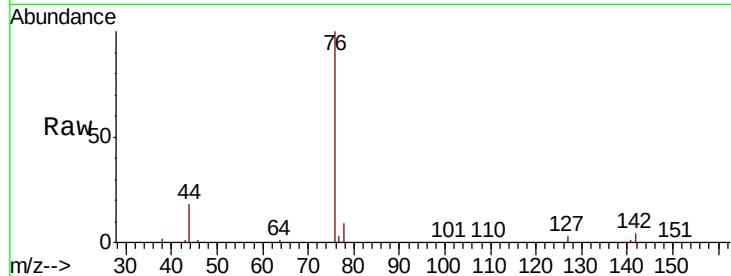




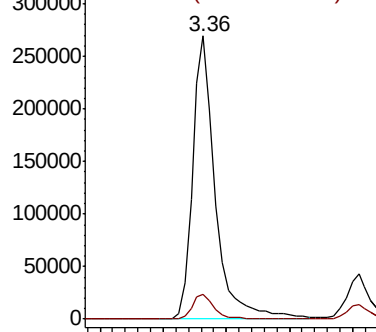
#17
Carbon Disulfide
Concen: 41.874 ug/l
RT: 3.36 min Scan# 197
Delta R.T. -0.02 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Instrument :
MSVOA_D
ClientSampled :

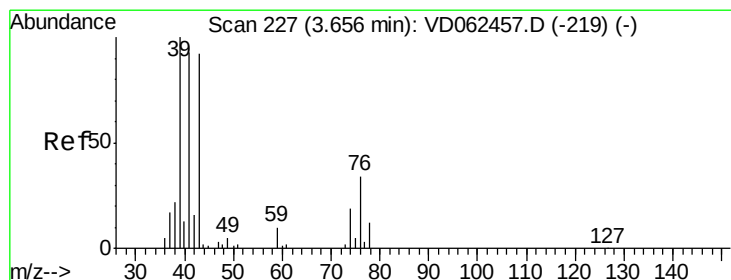
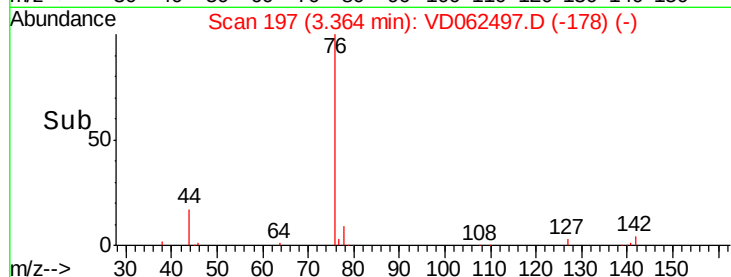
Tot Ion: 76 Resp: 671940
Ion Ratio Lower Upper
76 100
78 8.9 7.2 10.8



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

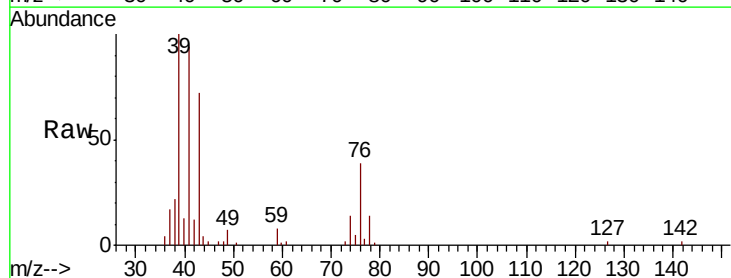


Time-->

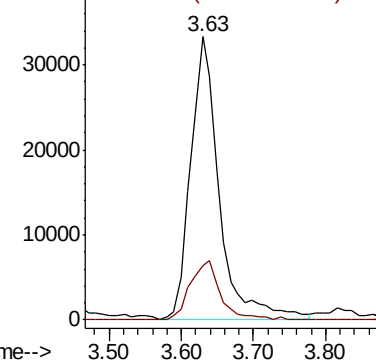


#18
Methyl Acetate
Concen: 38.618 ug/l
RT: 3.63 min Scan# 224
Delta R.T. -0.03 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

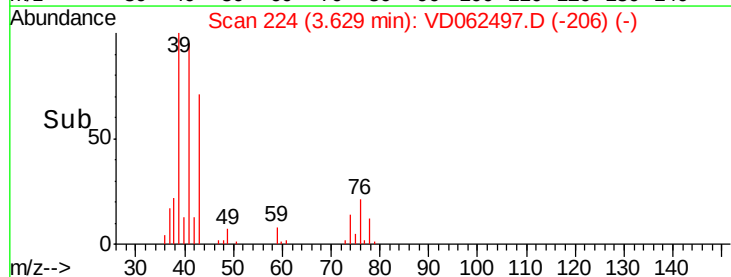
Tgt Ion: 43 Resp: 91455
Ion Ratio Lower Upper
43 100
74 19.3 18.0 27.0

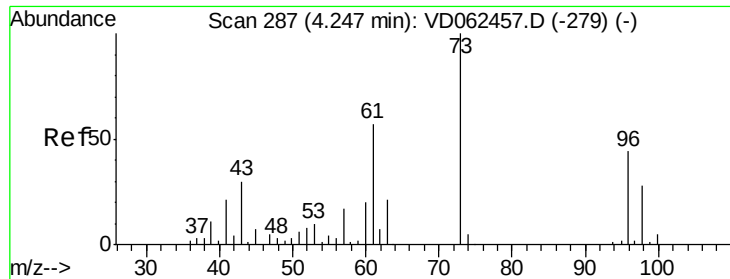


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 74.00 (73.70 to 74.70): VDC



Time-->

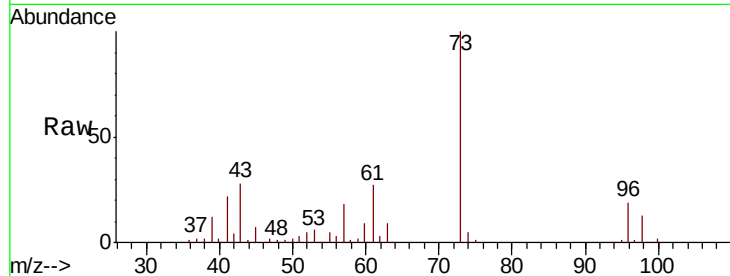




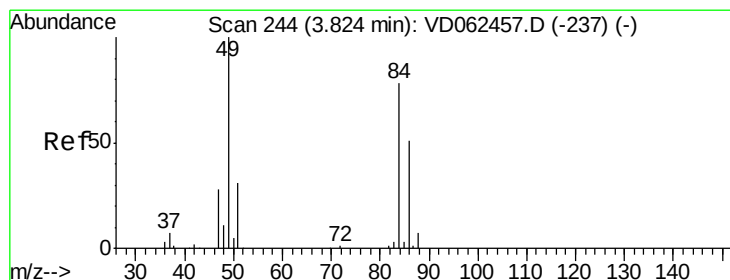
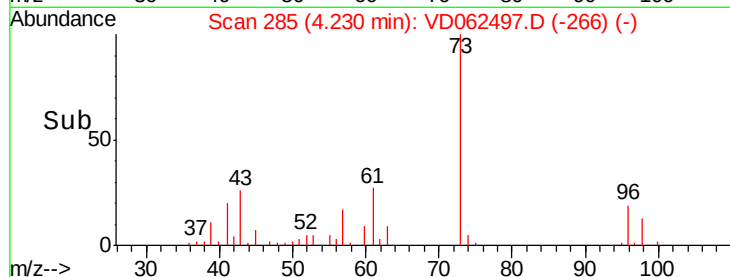
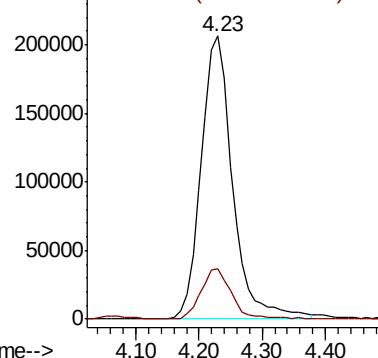
#19
Methyl tert-butyl Ether
Concen: 58.085 ug/l
RT: 4.23 min Scan# 285
Delta R.T. -0.02 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 73 Resp: 710852
Ion Ratio Lower Upper
73 100
57 17.7 16.3 24.5

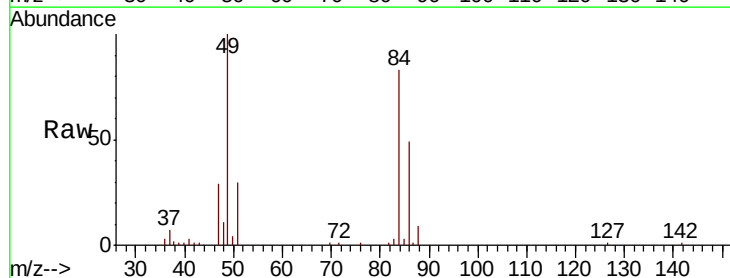


Abundance Ion 73.00 (72.70 to 73.70): VDC
Ion 57.05 (56.75 to 57.75): VDC

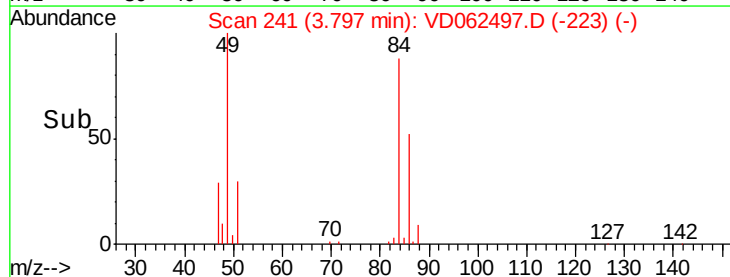
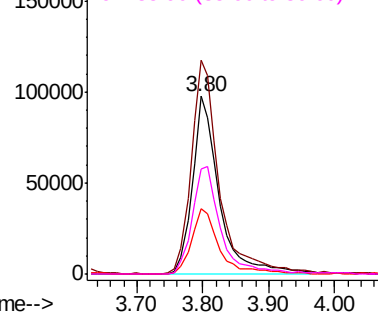


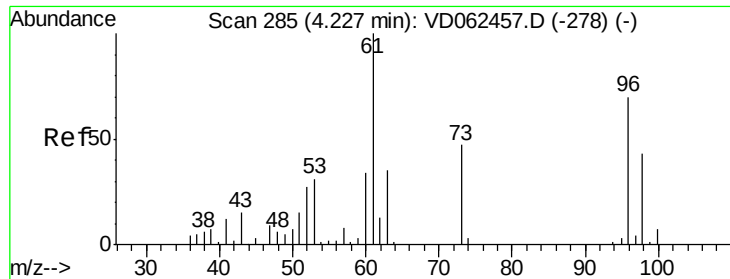
#20
Methylene Chloride
Concen: 46.778 ug/l
RT: 3.80 min Scan# 241
Delta R.T. -0.03 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Tgt Ion: 84 Resp: 276273
Ion Ratio Lower Upper
84 100
49 120.3 94.0 141.0
51 36.5 29.0 43.4
86 59.1 49.8 74.6



Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC





#21

trans-1,2-Dichloroethene

Concen: 55.646 ug/l

RT: 4.20 min Scan# 282

Delta R.T. -0.03 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :
MSVOA_D
ClientSampleId :

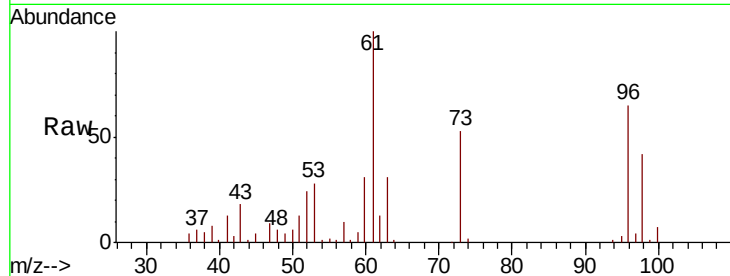
Tot Ion: 96 Resp: 345164

Ion Ratio Lower Upper

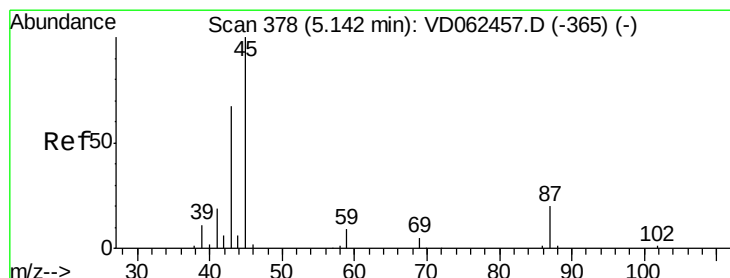
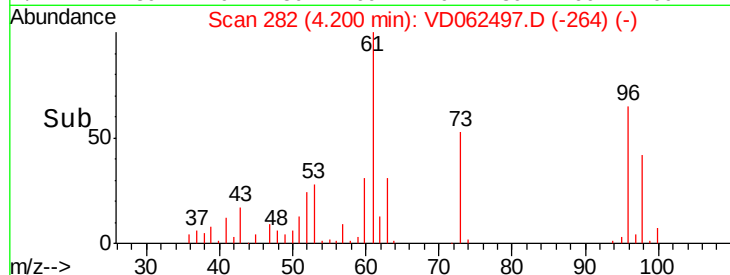
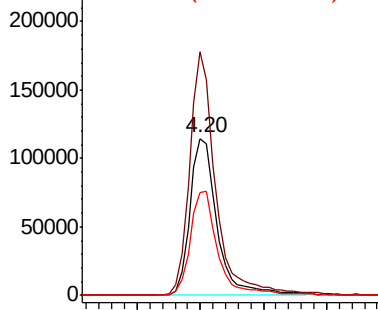
96 100

61 155.0 104.4 156.6

98 65.4 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: 56.618 ug/l

RT: 5.11 min Scan# 374

Delta R.T. -0.04 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Tgt Ion: 45 Resp: 941512

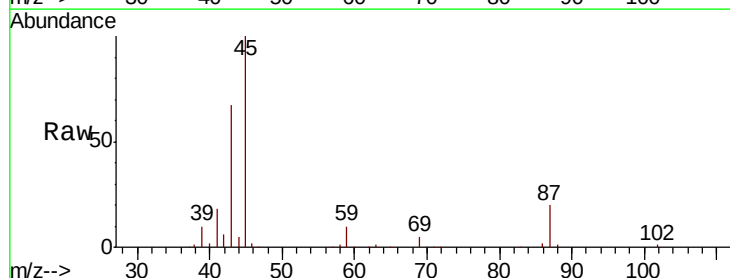
Ion Ratio Lower Upper

45 100

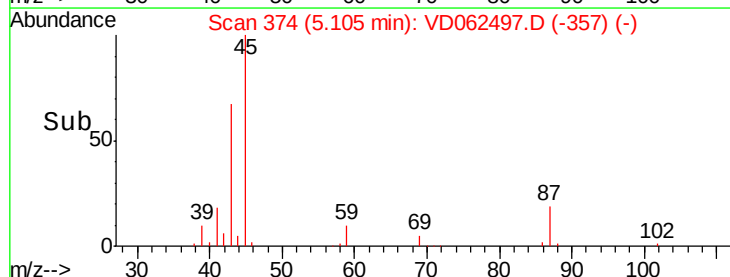
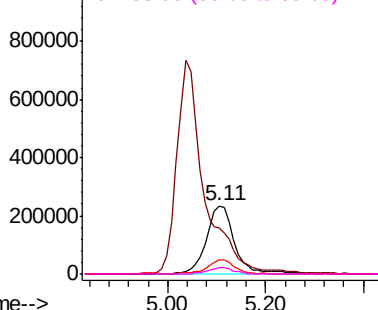
43 67.1 46.2 69.2

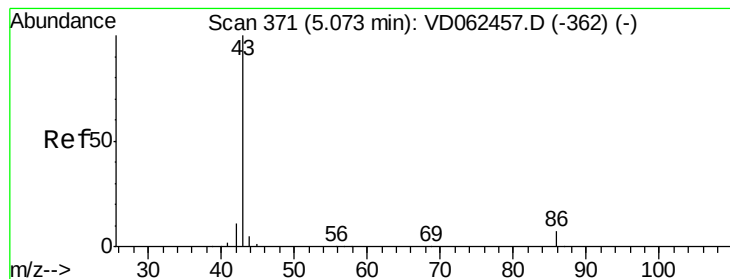
87 19.9 15.9 23.9

59 9.8 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: 284.087 ug/l

RT: 5.04 min Scan# 367

Delta R.T. -0.04 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :

MSVOA_D

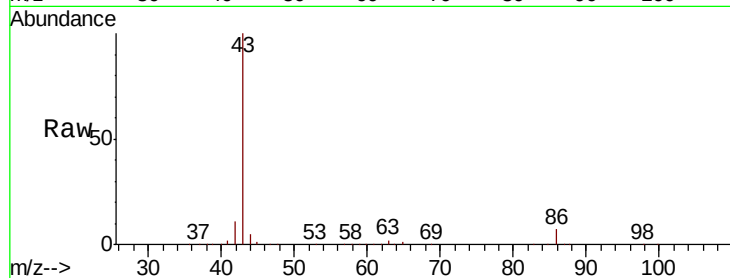
ClientSampleId :

Tot Ion: 43 Resp: 2854582

Ion Ratio Lower Upper

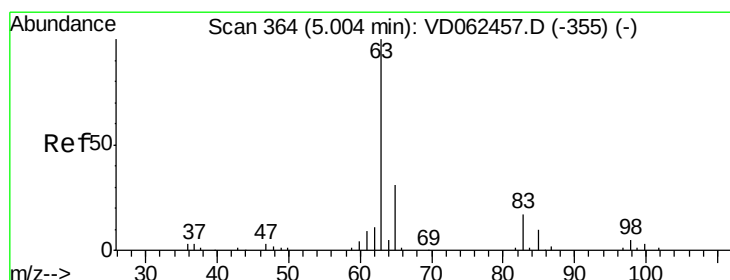
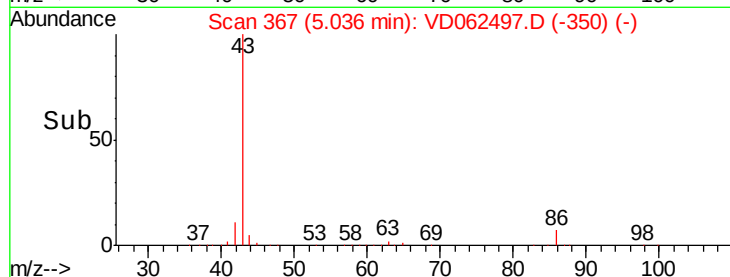
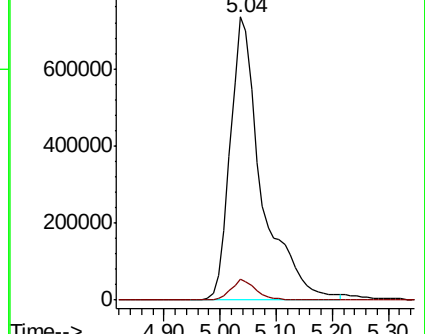
43 100

86 7.4 6.4 9.6



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 54.342 ug/l

RT: 4.97 min Scan# 360

Delta R.T. -0.04 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

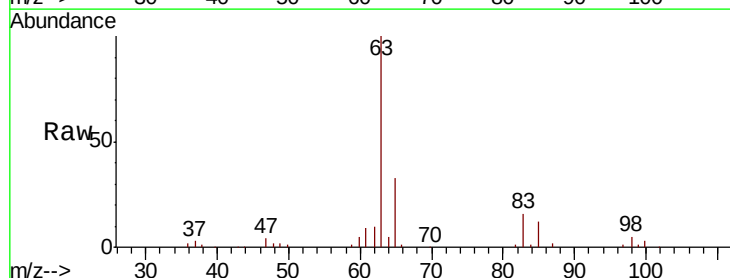
Tgt Ion: 63 Resp: 582000

Ion Ratio Lower Upper

63 100

98 5.2 2.8 8.4

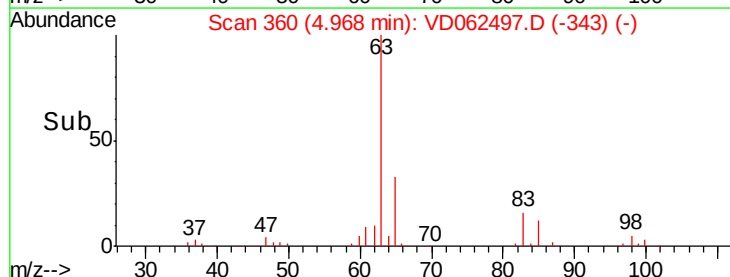
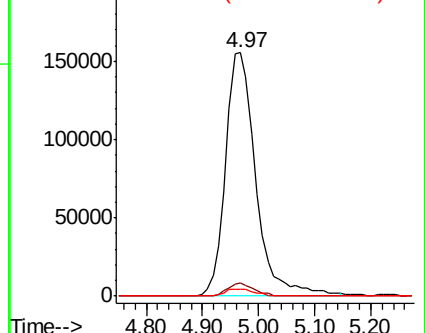
100 2.8 1.8 5.5

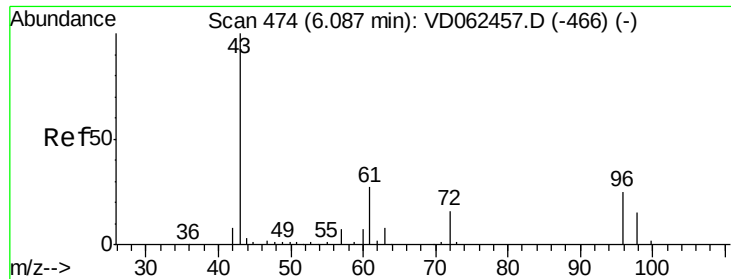


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 369.530 ug/l

RT: 6.06 min Scan# 471

Delta R.T. -0.03 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :

MSVOA_D

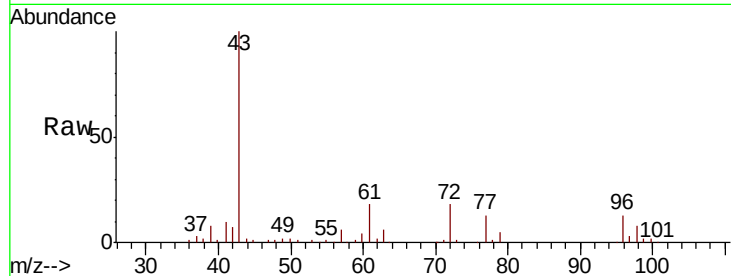
ClientSampleId :

Tot Ion: 43 Resp: 530427

Ion Ratio Lower Upper

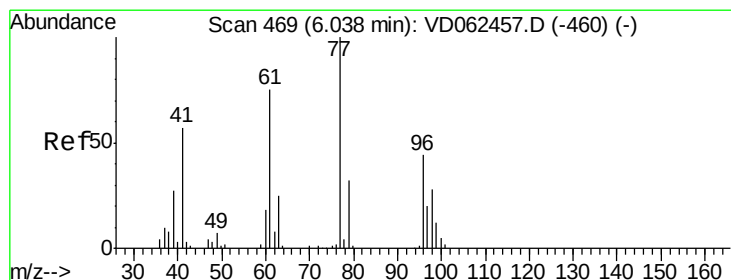
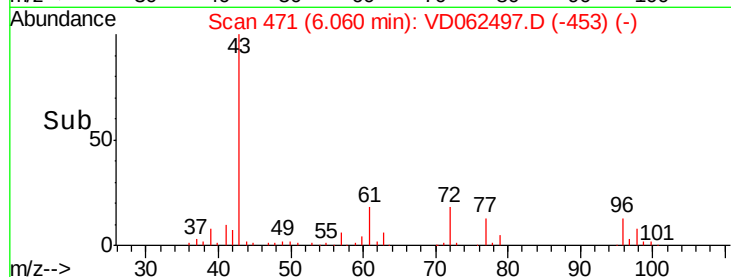
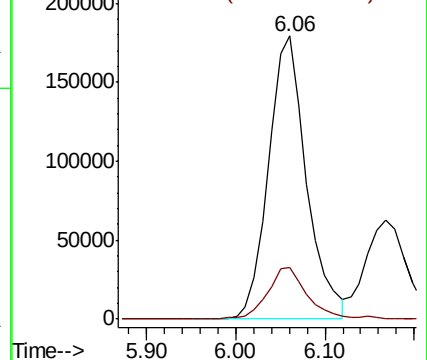
43 100

72 18.4 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: 61.086 ug/l

RT: 6.00 min Scan# 465

Delta R.T. -0.04 min

Lab File: VD062497.D

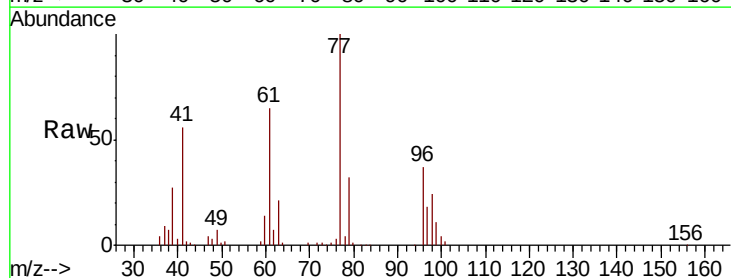
Acq: 22 May 2019 12:00

Tgt Ion: 77 Resp: 705228

Ion Ratio Lower Upper

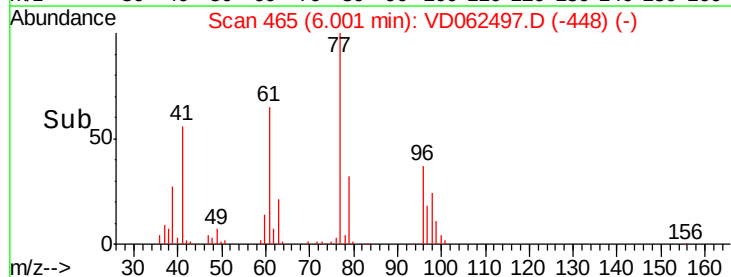
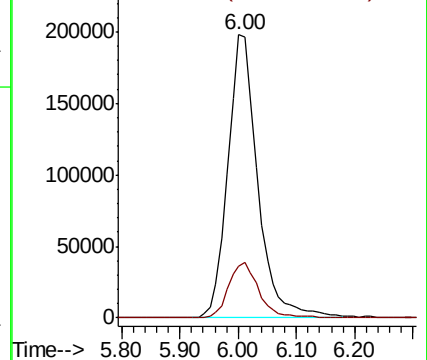
77 100

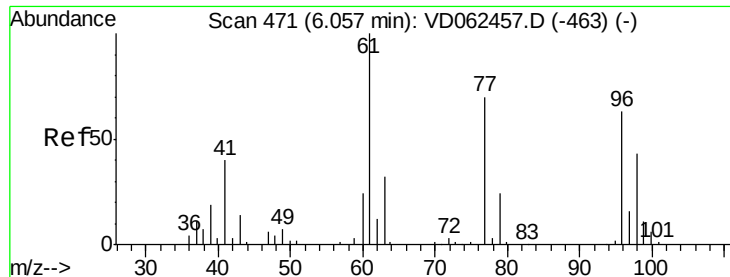
97 18.2 11.9 35.9



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



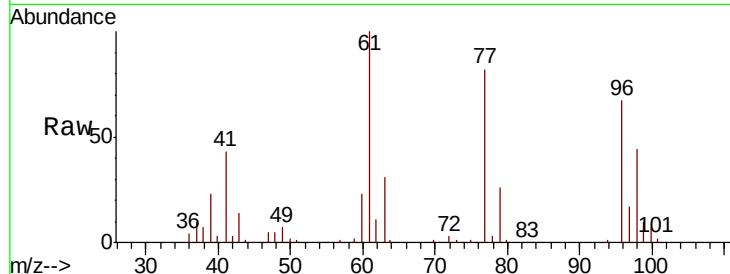


#27

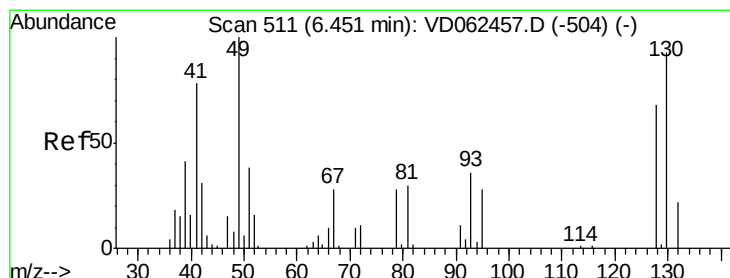
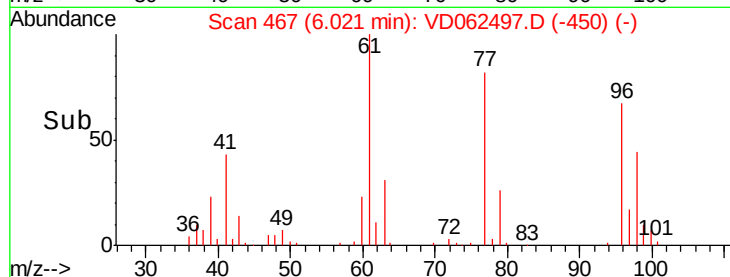
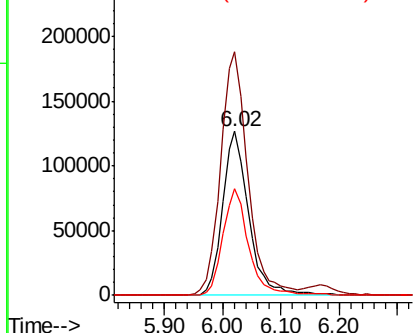
cis-1,2-Dichloroethene
 Concen: 58.973 ug/l
 RT: 6.02 min Scan# 467
 Delta R.T. -0.04 min
 Lab File: VD062497.D
 Acq: 22 May 2019 12:00

Instrument :
 MSVOA_D
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
96	100		
61	148.6	0.0	279.8
98	64.9	0.0	136.0



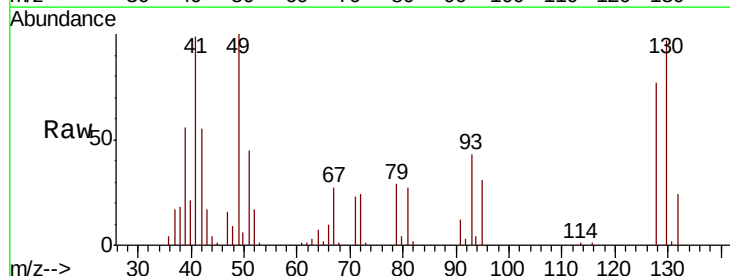
Abundance Ion 95.90 (95.60 to 96.60): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 97.85 (97.55 to 98.55): VDC



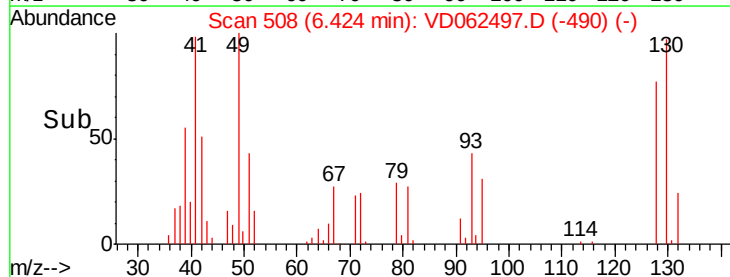
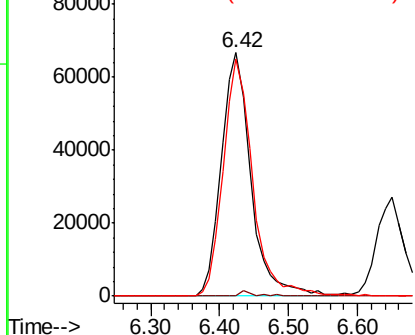
#28

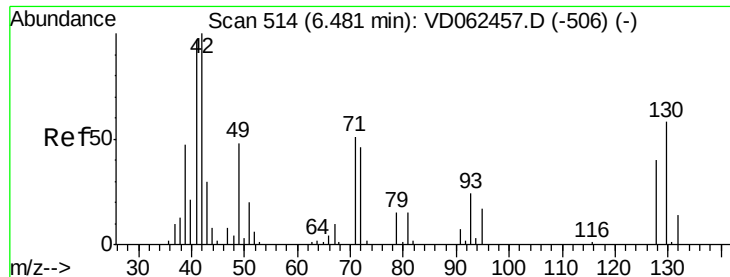
Bromochloromethane
 Concen: 51.881 ug/l
 RT: 6.42 min Scan# 508
 Delta R.T. -0.03 min
 Lab File: VD062497.D
 Acq: 22 May 2019 12:00

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	6.6
130	97.4	86.7	130.1



Abundance Ion 48.90 (48.60 to 49.60): VDC
 Ion 128.80 (128.50 to 129.50): VDC
 Ion 129.80 (129.50 to 130.50): VDC





#29

Tetrahydrofuran

Concen: 281.318 ug/l

RT: 6.44 min Scan# 510

Delta R.T. -0.04 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :

MSVOA_D

ClientSampleId :

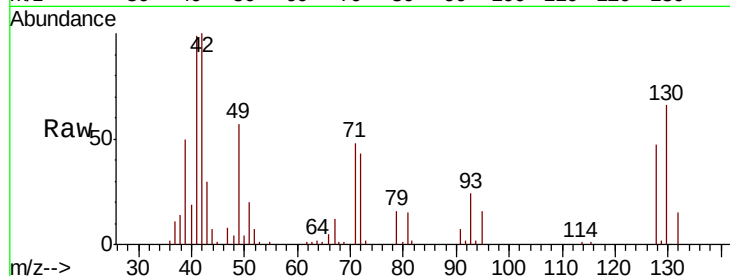
Tot Ion: 42 Resp: 192853

Ion Ratio Lower Upper

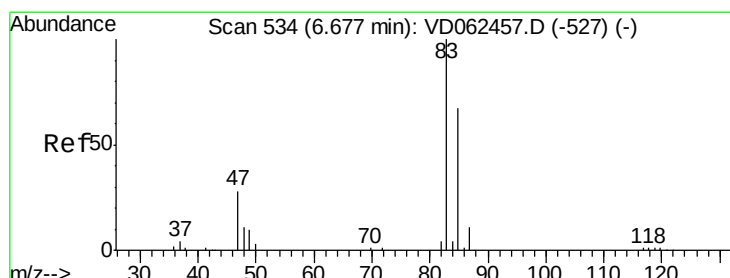
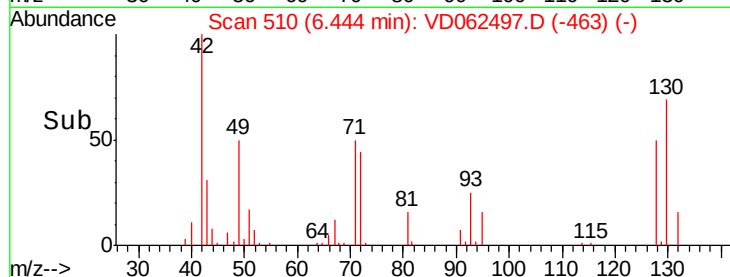
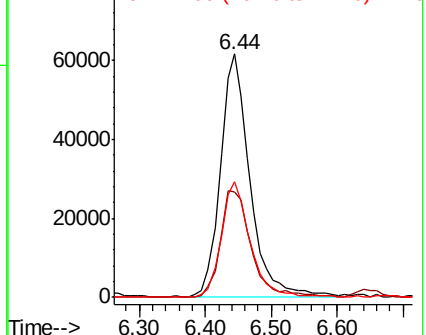
42 100

72 45.7 37.8 56.6

71 45.9 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: 57.950 ug/l

RT: 6.65 min Scan# 531

Delta R.T. -0.03 min

Lab File: VD062497.D

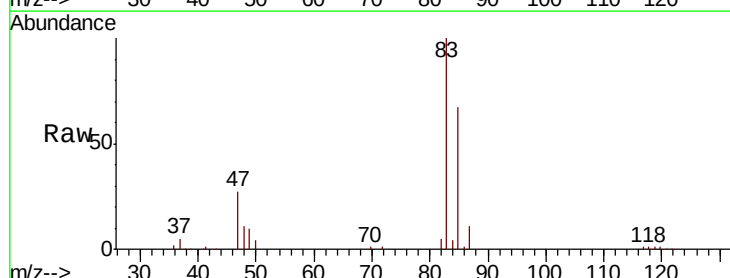
Acq: 22 May 2019 12:00

Tgt Ion: 83 Resp: 791243

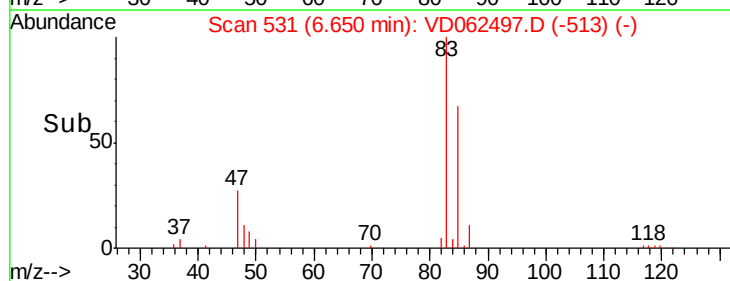
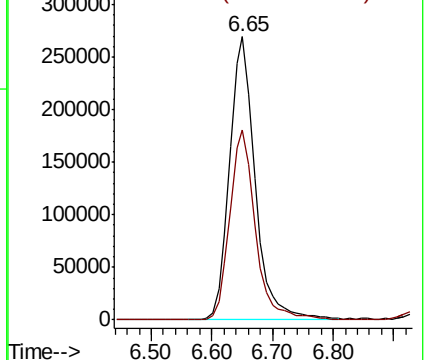
Ion Ratio Lower Upper

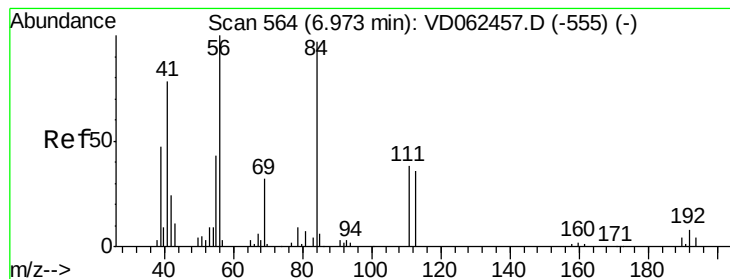
83 100

85 67.2 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: 56.073 ug/l

RT: 6.94 min Scan# 560

Delta R.T. -0.04 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :

MSVOA_D

ClientSampled :

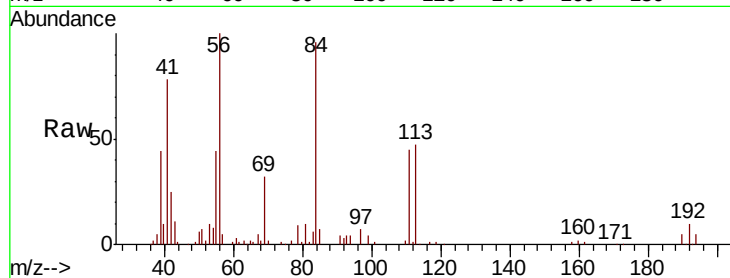
Tot Ion: 56 Resp: 405481

Ion Ratio Lower Upper

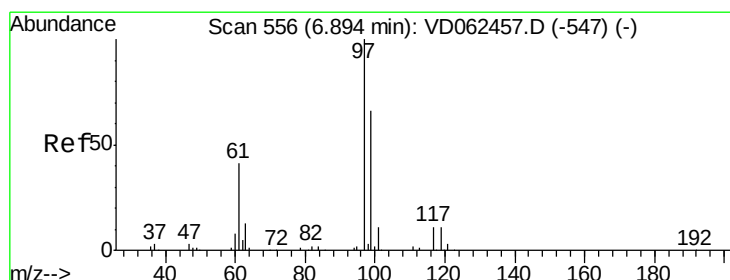
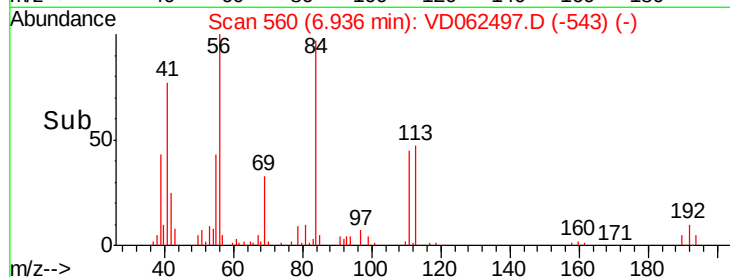
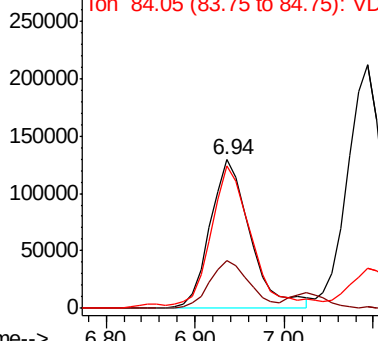
56 100

69 32.4 25.8 38.6

84 96.4 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: 57.145 ug/l

RT: 6.85 min Scan# 551

Delta R.T. -0.05 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

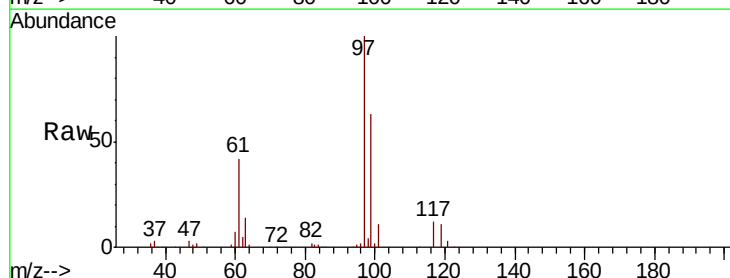
Tgt Ion: 97 Resp: 787726

Ion Ratio Lower Upper

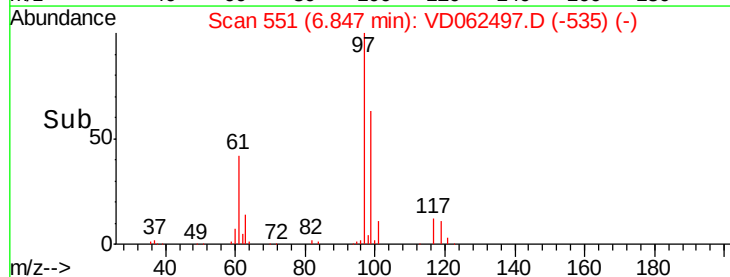
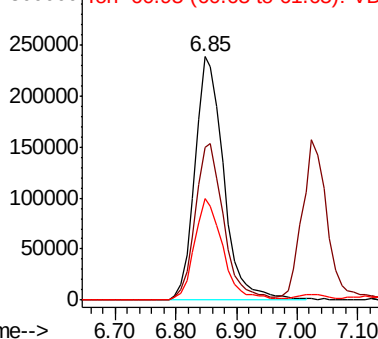
97 100

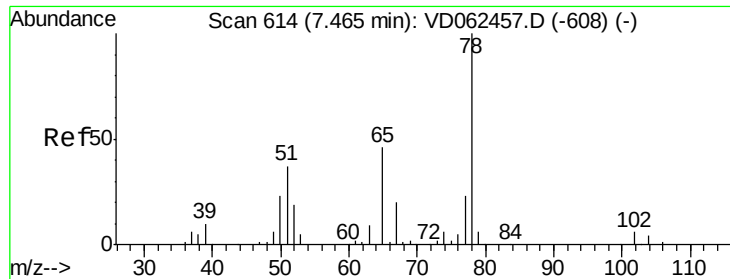
99 62.9 52.2 78.2

61 41.6 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

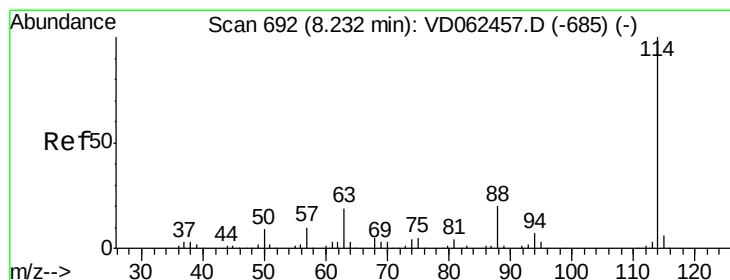
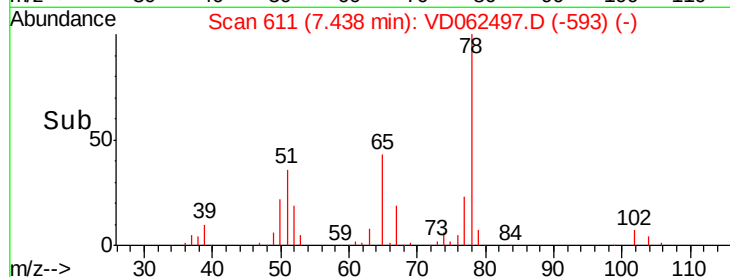
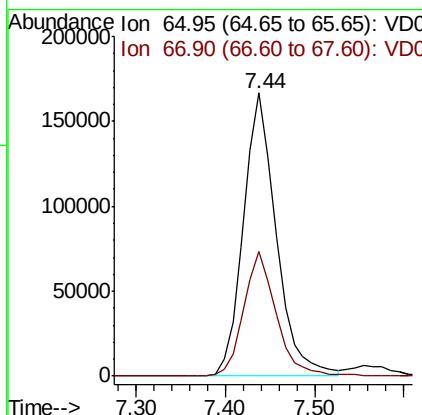
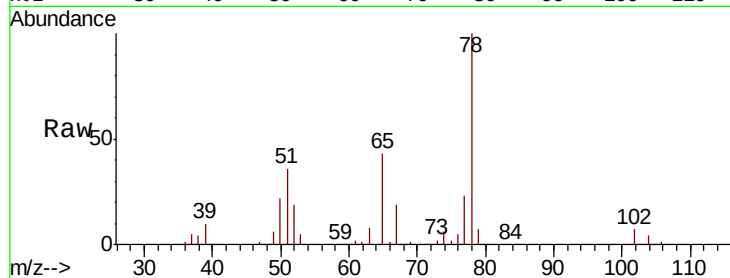




#33
 1,2-Dichloroethane-d4
 Concen: 55.467 ug/l
 RT: 7.44 min Scan# 611
 Delta R.T. -0.03 min
 Lab File: VD062497.D
 Acq: 22 May 2019 12:00

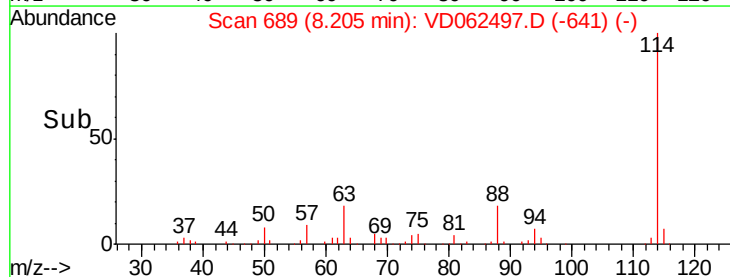
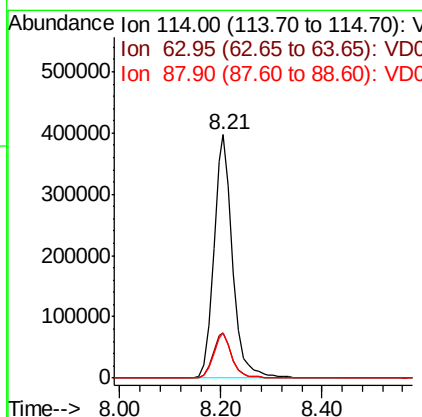
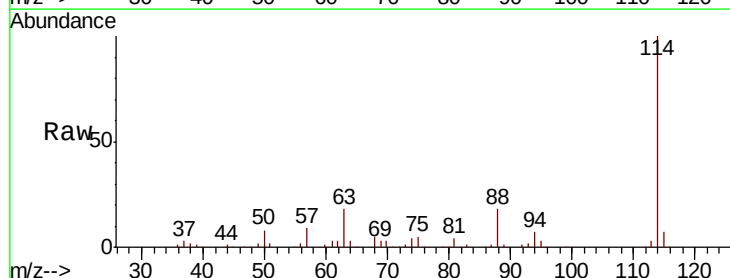
Instrument :
 MSVOA_D
 ClientSampleId :

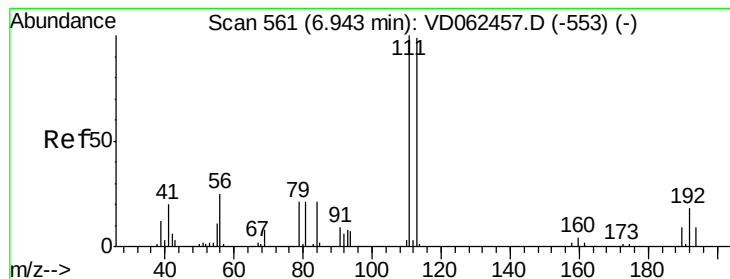
Tot Ion: 65 Resp: 424799
 Ion Ratio Lower Upper
 65 100
 67 44.1 0.0 98.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 689
 Delta R.T. -0.03 min
 Lab File: VD062497.D
 Acq: 22 May 2019 12:00

Tgt Ion: 114 Resp: 1030693
 Ion Ratio Lower Upper
 114 100
 63 18.3 0.0 32.4
 88 18.3 0.0 33.6





#35

Dibromofluoromethane

Concen: 50.771 ug/l

RT: 6.91 min Scan# 557

Delta R.T. -0.04 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :

MSVOA_D

ClientSampleId :

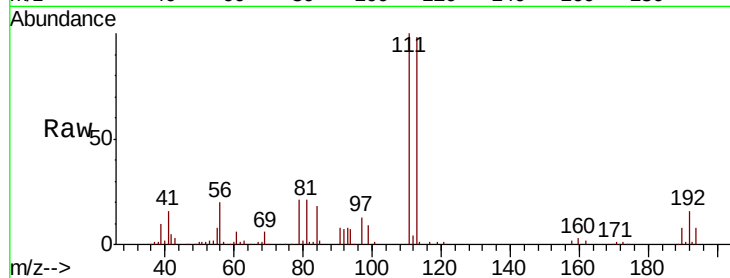
Tot Ion:113 Resp: 472076

Ion Ratio Lower Upper

113 100

111 102.3 78.5 117.7

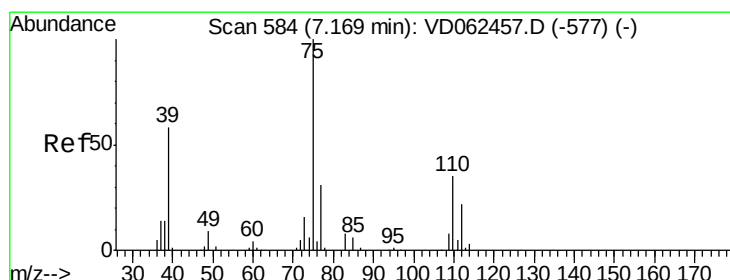
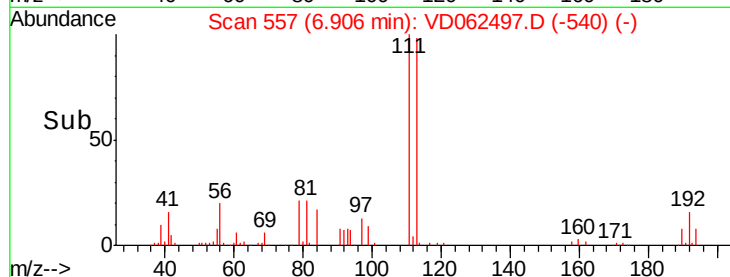
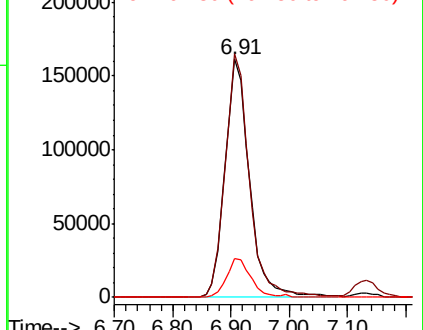
192 16.5 13.0 19.4



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: 53.637 ug/l

RT: 7.13 min Scan# 580

Delta R.T. -0.04 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

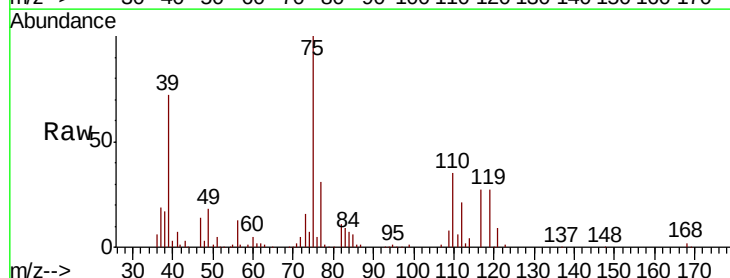
Tgt Ion: 75 Resp: 528541

Ion Ratio Lower Upper

75 100

110 35.0 19.1 57.1

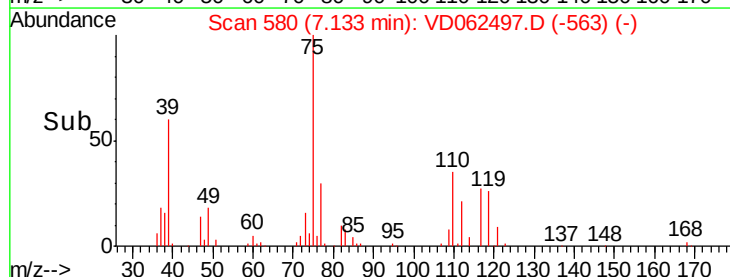
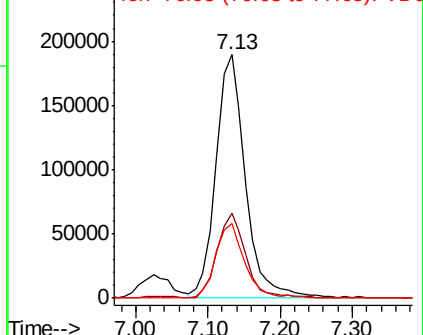
77 30.5 25.6 38.4

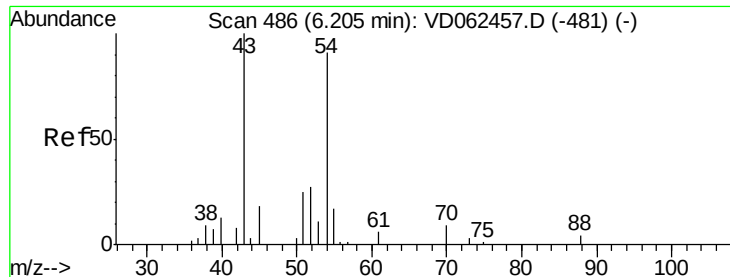


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V





#37

Ethyl Acetate

Concen: 55.191 ug/l

RT: 6.17 min Scan# 482

Delta R.T. -0.04 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :

MSVOA_D

ClientSampled :

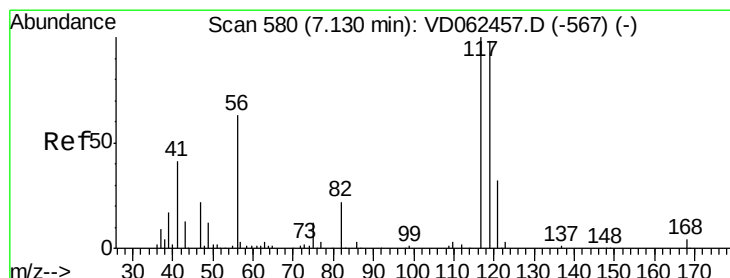
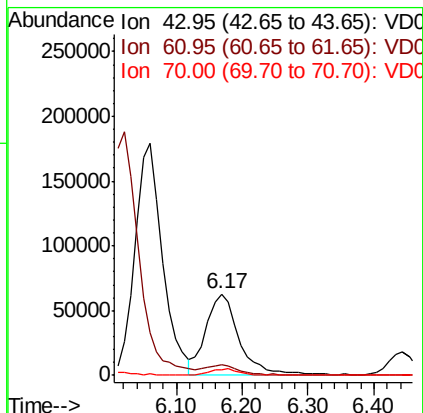
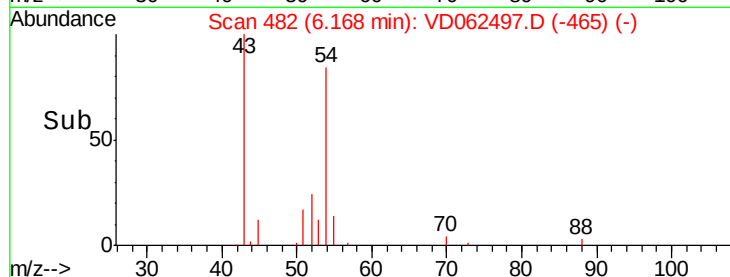
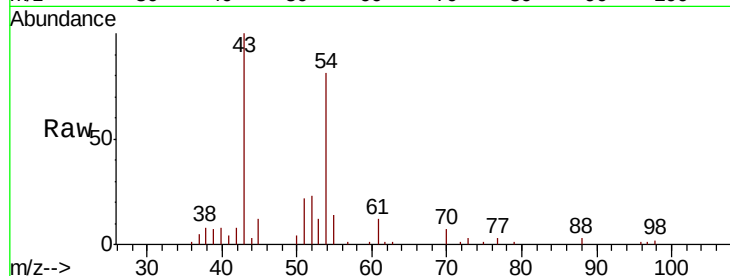
Tot Ion: 43 Resp: 211278

Ion Ratio Lower Upper

43 100

61 12.5 14.7 22.1#

70 6.9 7.8 11.6#



#38

Carbon Tetrachloride

Concen: 56.241 ug/l

RT: 7.09 min Scan# 576

Delta R.T. -0.04 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

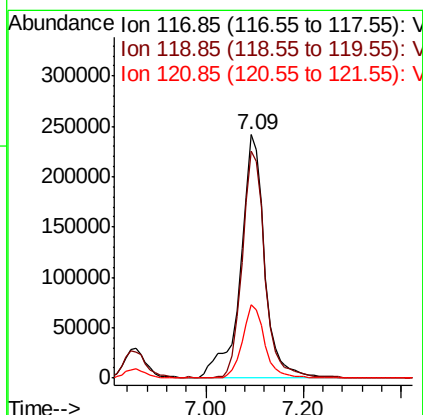
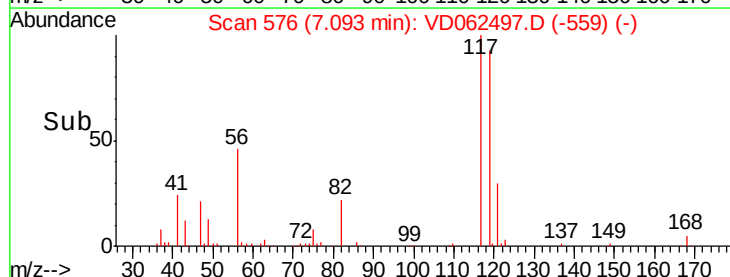
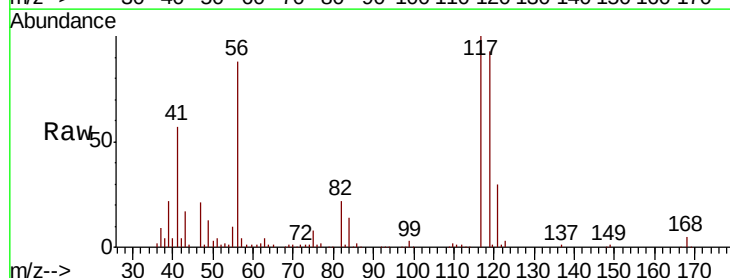
Tgt Ion: 117 Resp: 823669

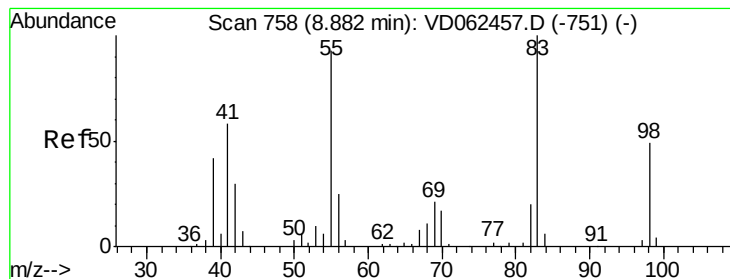
Ion Ratio Lower Upper

117 100

119 93.4 75.8 113.8

121 30.4 25.9 38.9





#39

Methylvlcyclohexane

Concen: 58.606 ug/l

RT: 8.85 min Scan# 755

Delta R.T. -0.03 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :

MSVOA_D

ClientSampled :

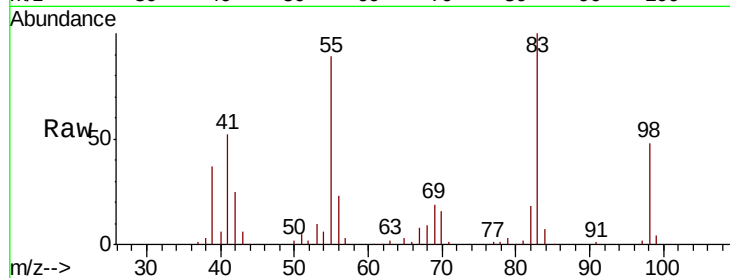
Tot Ion: 83 Resp: 476328

Ion Ratio Lower Upper

83 100

55 89.4 68.2 102.4

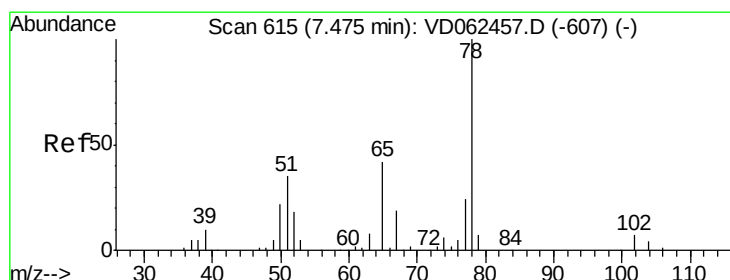
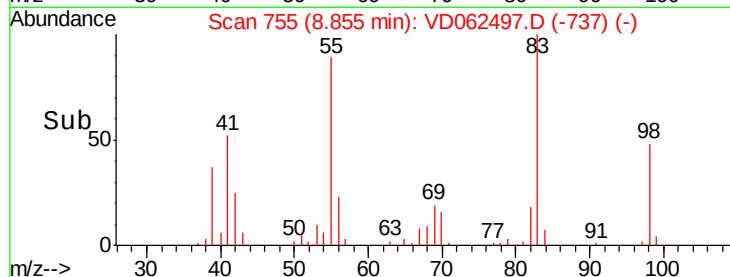
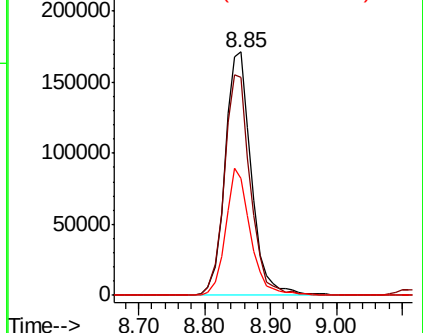
98 48.2 38.2 57.4



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: 54.346 ug/l

RT: 7.44 min Scan# 611

Delta R.T. -0.04 min

Lab File: VD062497.D

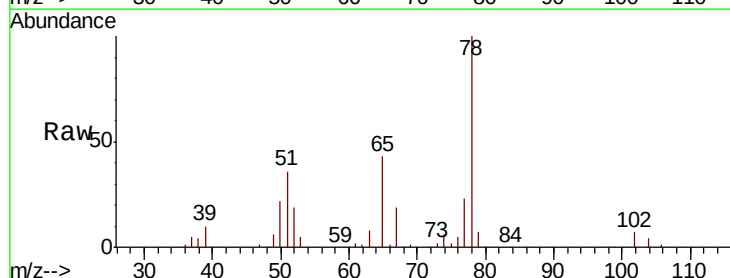
Acq: 22 May 2019 12:00

Tgt Ion: 78 Resp: 1050461

Ion Ratio Lower Upper

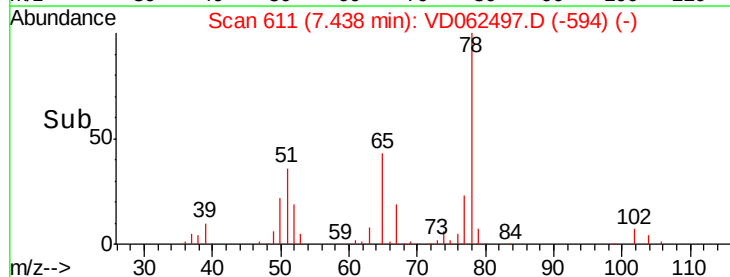
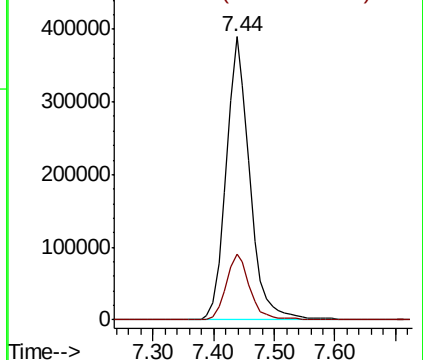
78 100

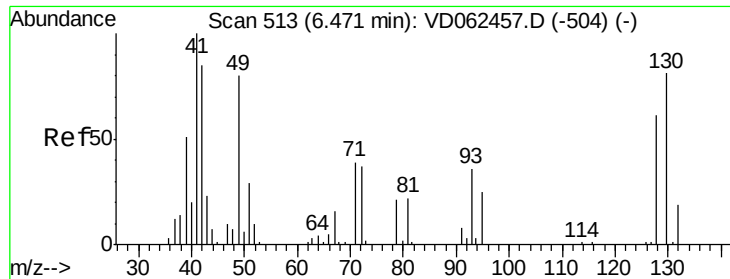
77 23.4 19.7 29.5



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC

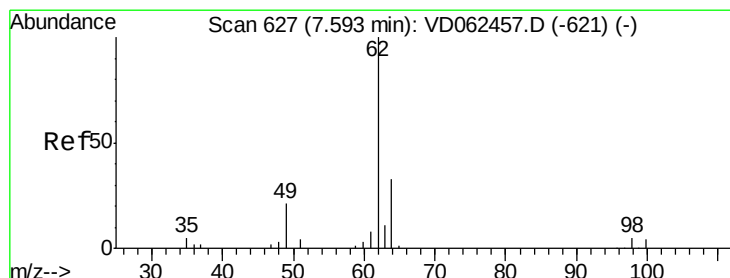
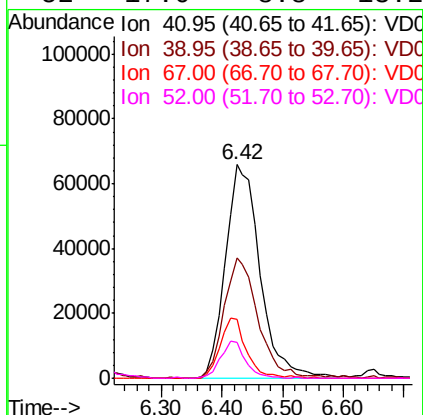
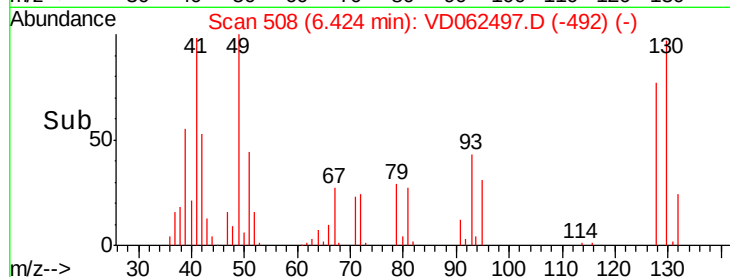
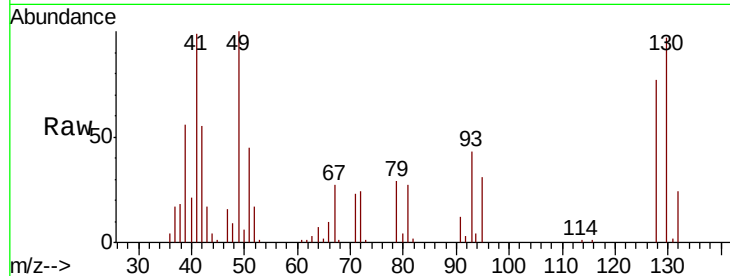




#41
Methacrylonitrile
Concen: 54.322 ug/l
RT: 6.42 min Scan# 508
Delta R.T. -0.05 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

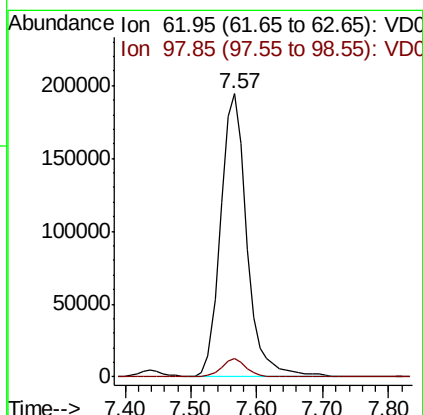
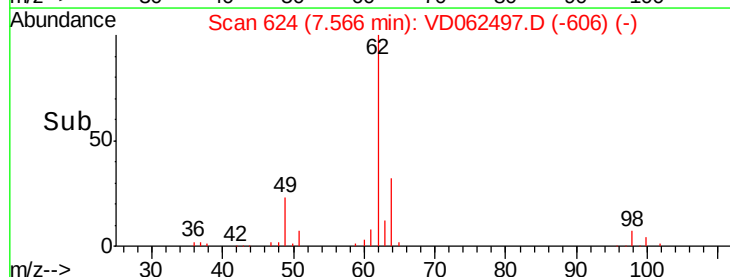
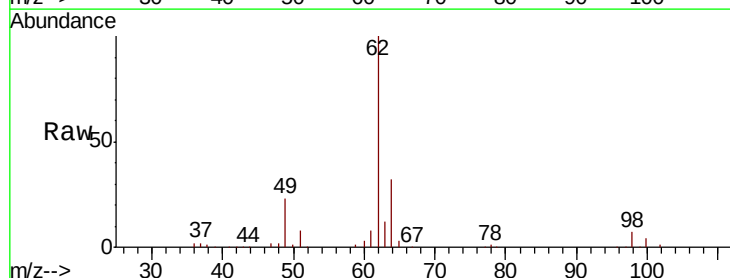
Instrument :
MSVOA_D
ClientSampleId :

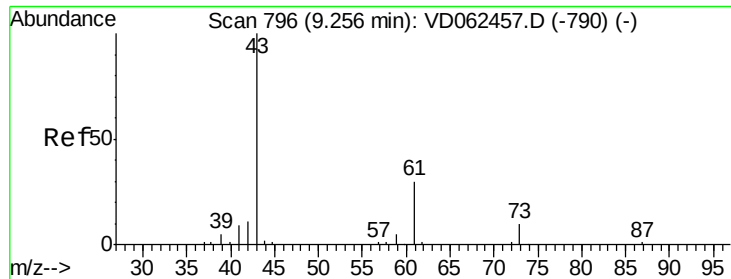
Tot Ion: 41 Resp: 261175
Ion Ratio Lower Upper
41 100
39 56.4 34.1 51.1#
67 27.5 23.8 35.6
52 17.0 8.8 13.2#



#42
1,2-Dichloroethane
Concen: 52.710 ug/l
RT: 7.57 min Scan# 624
Delta R.T. -0.03 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Tgt Ion: 62 Resp: 539510
Ion Ratio Lower Upper
62 100
98 6.5 0.0 17.8





#43

Isopropyl Acetate

Concen: 54.392 ug/l

RT: 9.23 min Scan# 793

Delta R.T. -0.03 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :

MSVOA_D

ClientSampleId :

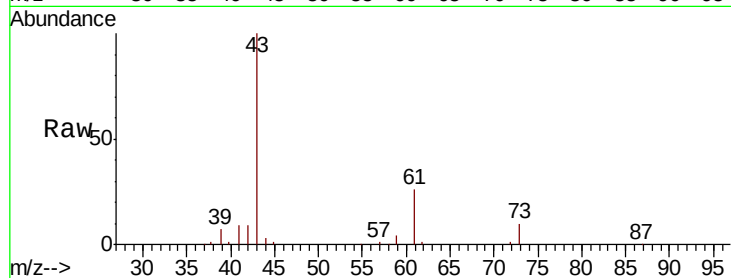
Tot Ion: 43 Resp: 276226

Ion Ratio Lower Upper

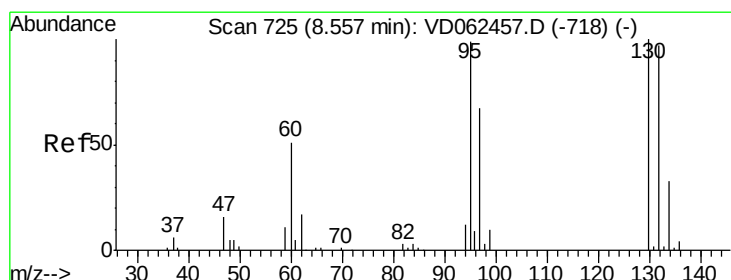
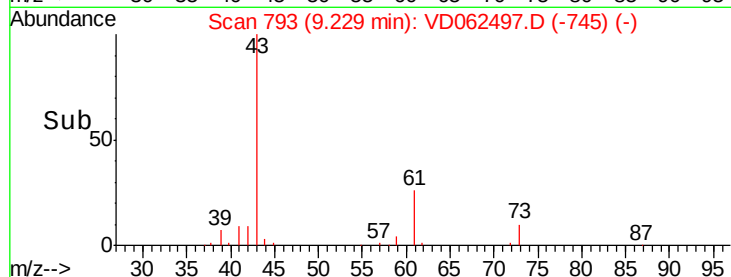
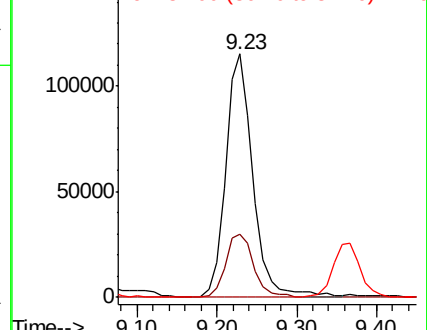
43 100

61 26.0 25.1 37.7

87 0.4 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: 52.249 ug/l

RT: 8.52 min Scan# 721

Delta R.T. -0.04 min

Lab File: VD062497.D

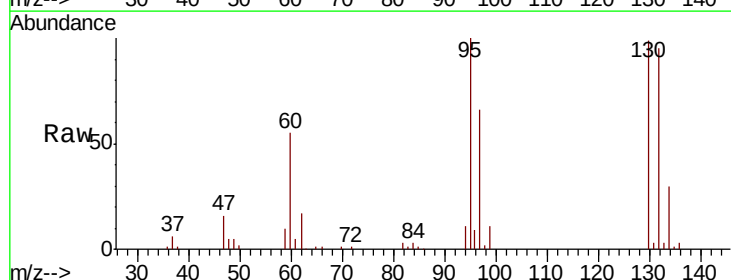
Acq: 22 May 2019 12:00

Tgt Ion:130 Resp: 404364

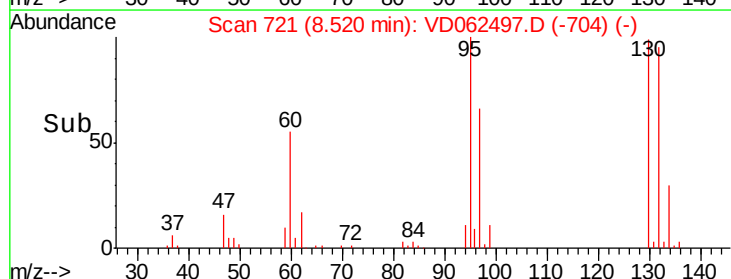
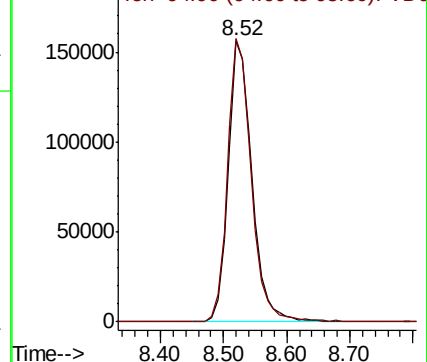
Ion Ratio Lower Upper

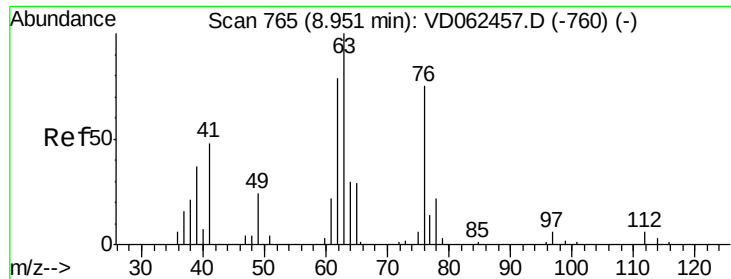
130 100

95 100.7 0.0 174.0



Abundance Ion 129.80 (129.50 to 130.50): VDC
Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 50.348 ug/l

RT: 8.93 min Scan# 763

Delta R.T. -0.02 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :

MSVOA_D

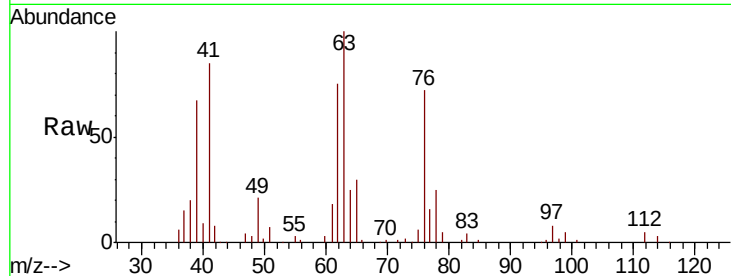
ClientSampleId :

Tot Ion: 63 Resp: 237162

Ion Ratio Lower Upper

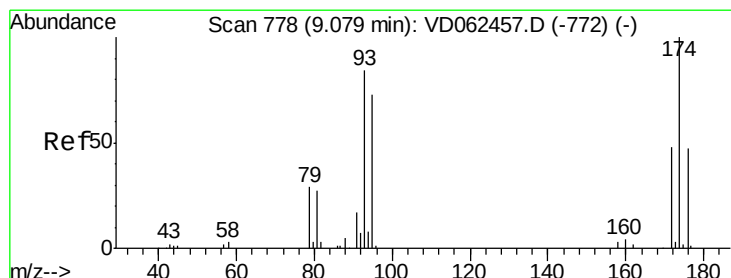
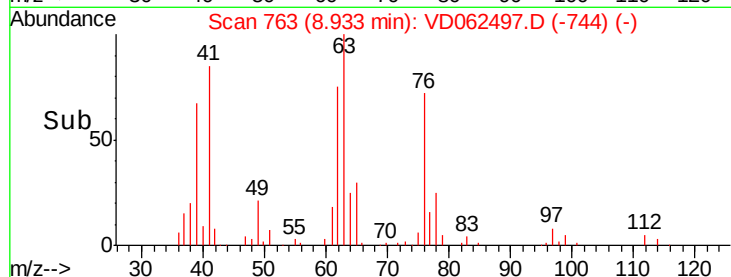
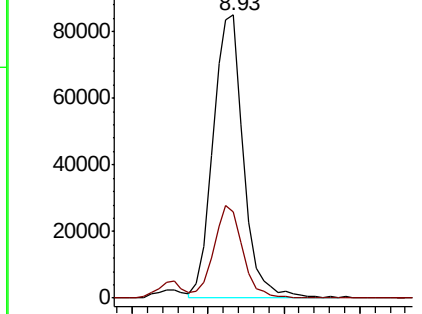
63 100

65 30.4 23.8 35.6



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#46

Dibromomethane

Concen: 54.571 ug/l

RT: 9.05 min Scan# 775

Delta R.T. -0.03 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

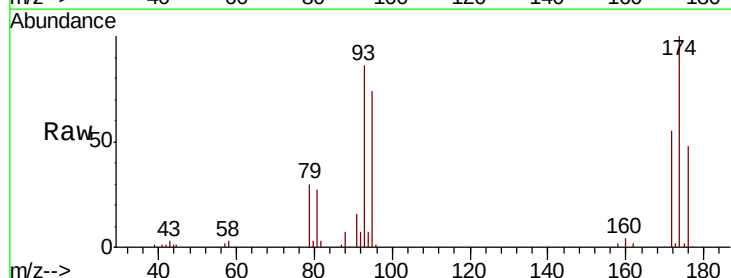
Tgt Ion: 93 Resp: 233010

Ion Ratio Lower Upper

93 100

95 85.7 64.8 97.2

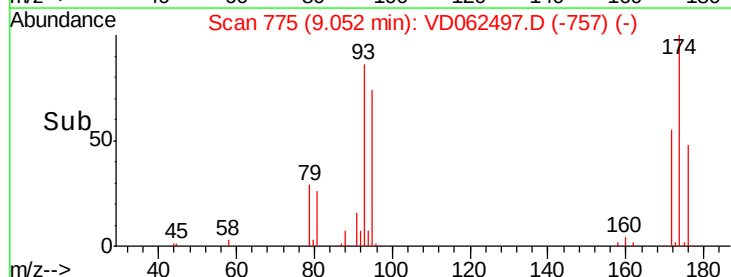
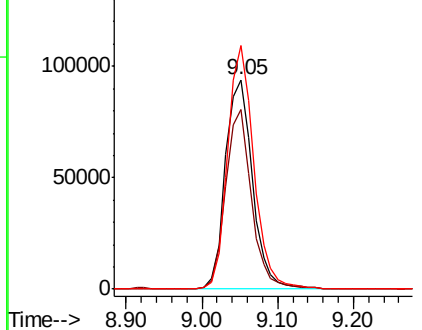
174 116.3 79.3 118.9

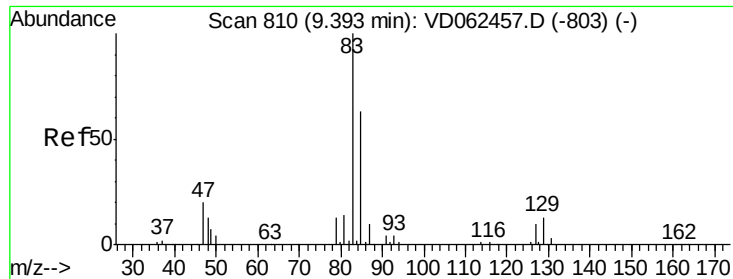


Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): VDC





#47

Bromodichloromethane

Concen: 55.321 ug/l

RT: 9.37 min Scan# 807

Delta R.T. -0.03 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :

MSVOA_D

ClientSampleId :

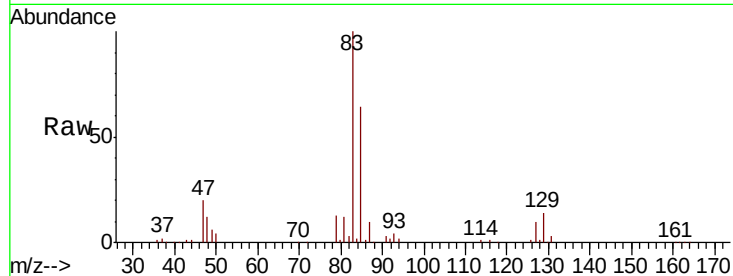
Tot Ion: 83 Resp: 600903

Ion Ratio Lower Upper

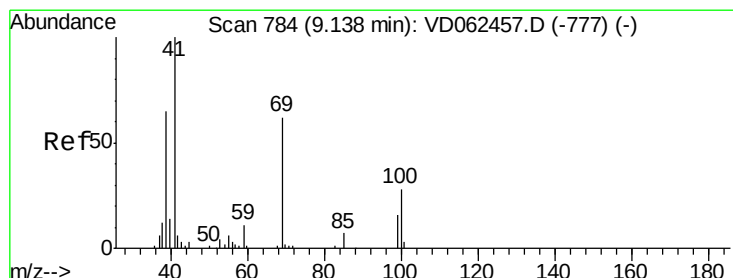
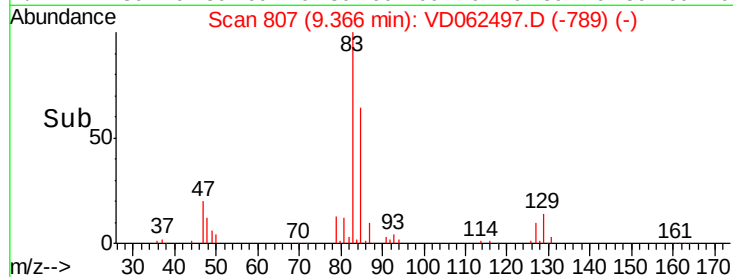
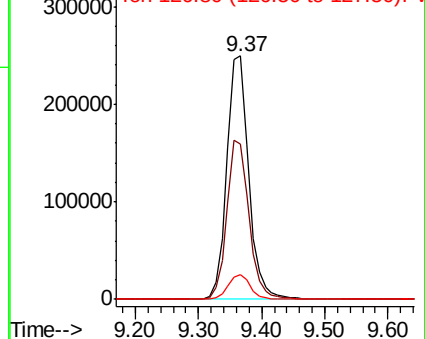
83 100

85 63.9 50.9 76.3

127 10.4 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: 55.533 ug/l

RT: 9.10 min Scan# 780

Delta R.T. -0.04 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

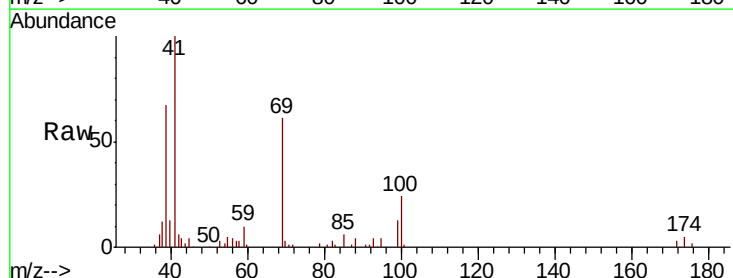
Tgt Ion: 41 Resp: 189786

Ion Ratio Lower Upper

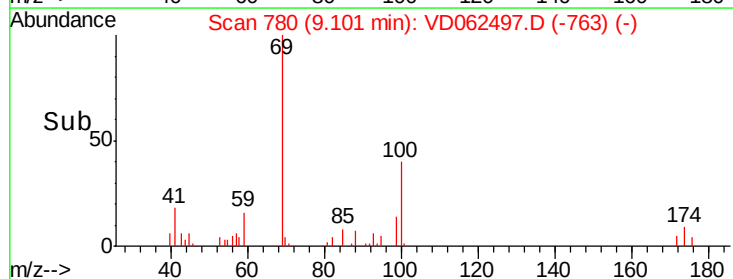
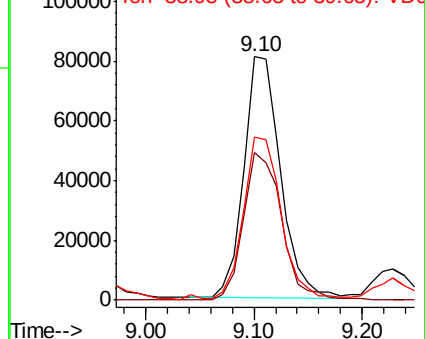
41 100

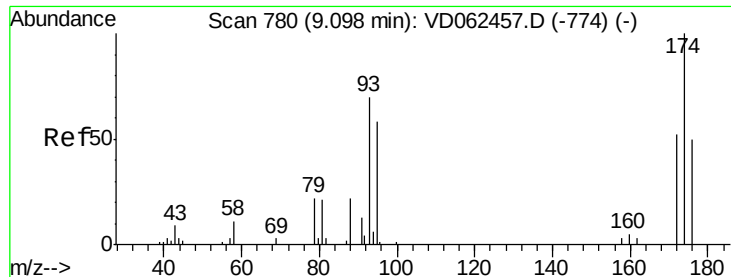
69 60.6 64.2 96.2#

39 66.7 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

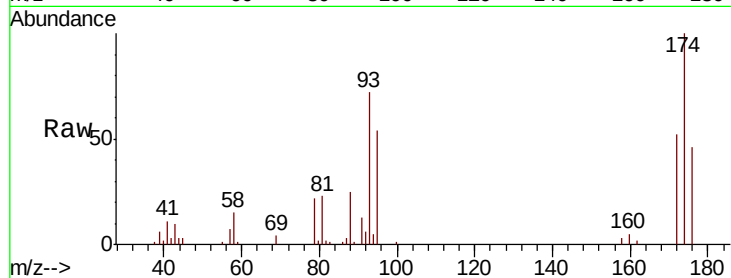




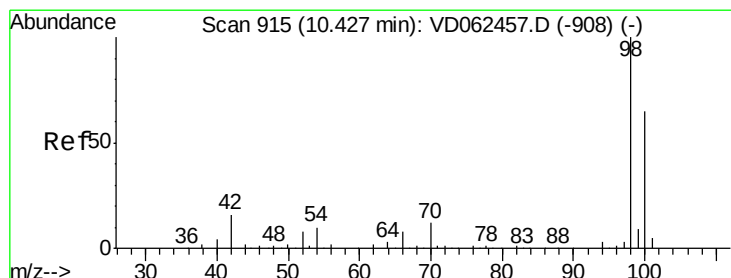
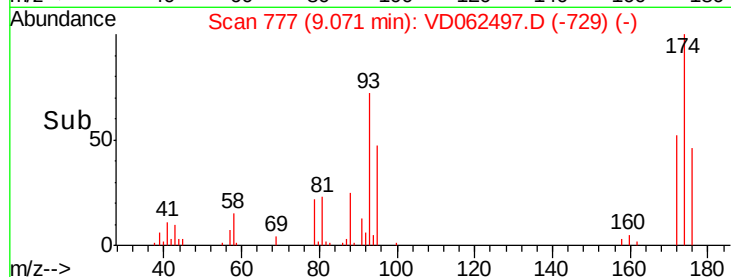
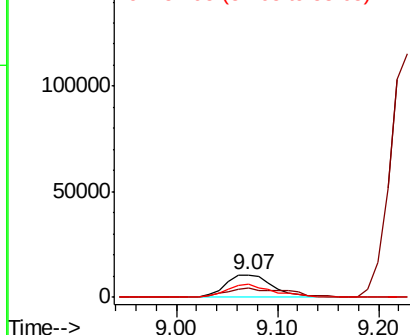
#49
1,4-Dioxane
Concen: 1133.185 ug/l
RT: 9.07 min Scan# 777
Delta R.T. -0.03 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 88 Resp: 34737
Ion Ratio Lower Upper
88 100
43 39.4 23.4 35.0#
58 58.3 44.0 66.0

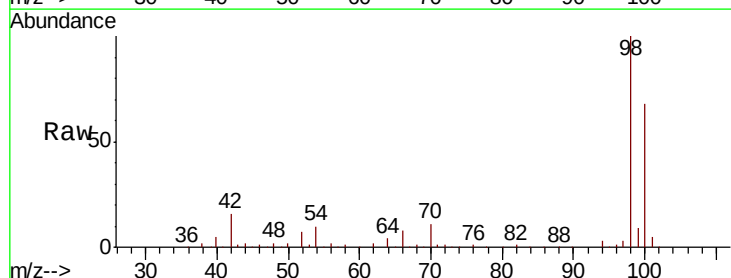


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

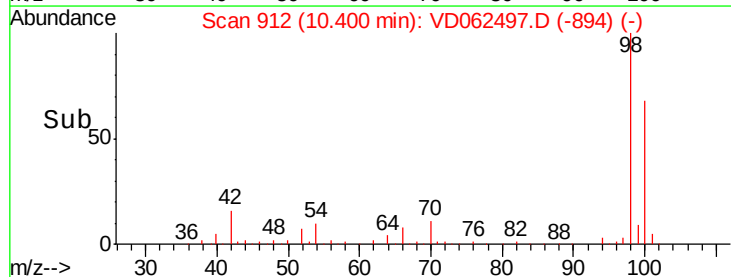
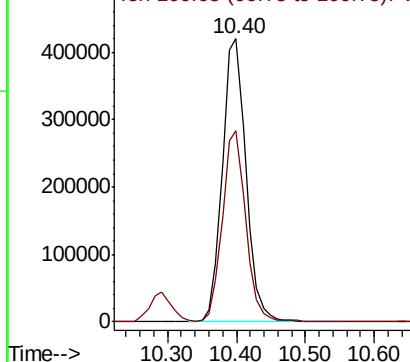


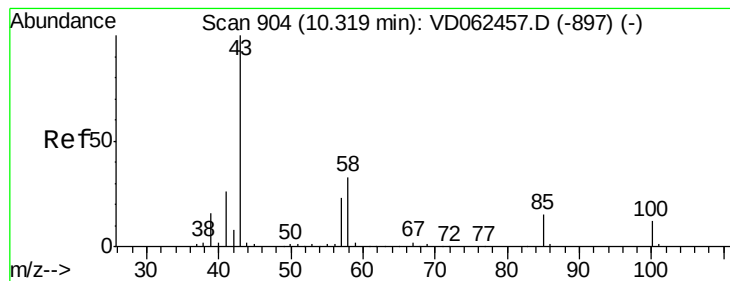
#50
Toluene-d8
Concen: 49.131 ug/l
RT: 10.40 min Scan# 912
Delta R.T. -0.03 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Tgt Ion: 98 Resp: 999703
Ion Ratio Lower Upper
98 100
100 67.7 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: 268.505 ug/l

RT: 10.29 min Scan# 901

Delta R.T. -0.03 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :

MSVOA_D

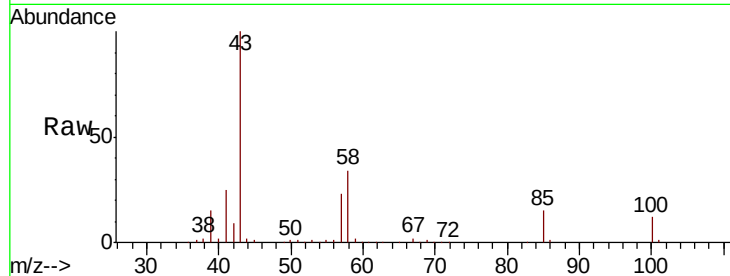
ClientSampleId :

Tot Ion: 43 Resp: 900818

Ion Ratio Lower Upper

43 100

58 33.7 30.4 45.6



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

10.29

400000

300000

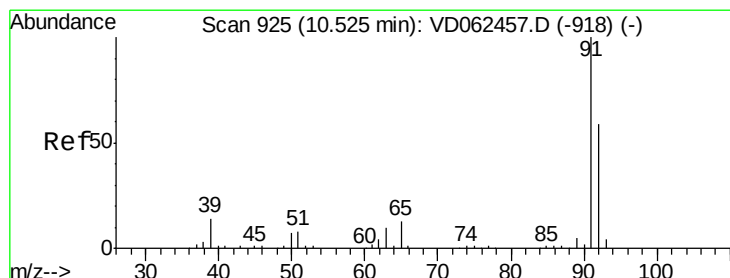
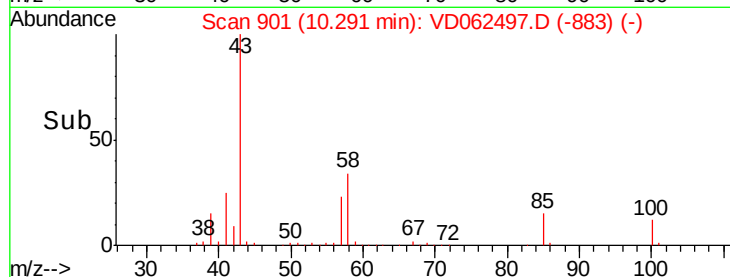
200000

100000

0

10.20 10.40

Time-->



#52

Toluene

Concen: 54.382 ug/l

RT: 10.50 min Scan# 922

Delta R.T. -0.03 min

Lab File: VD062497.D

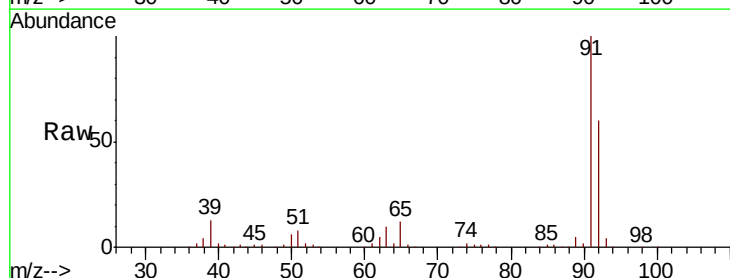
Acq: 22 May 2019 12:00

Tgt Ion: 92 Resp: 719601

Ion Ratio Lower Upper

92 100

91 167.1 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

600000

500000

400000

300000

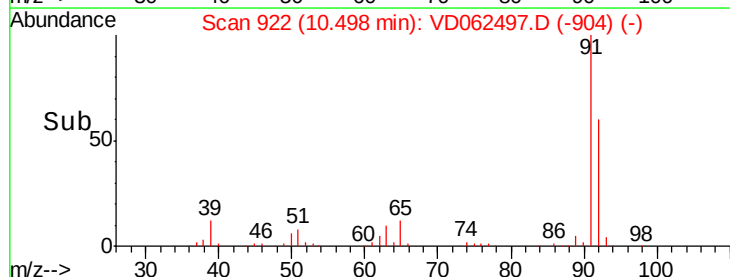
200000

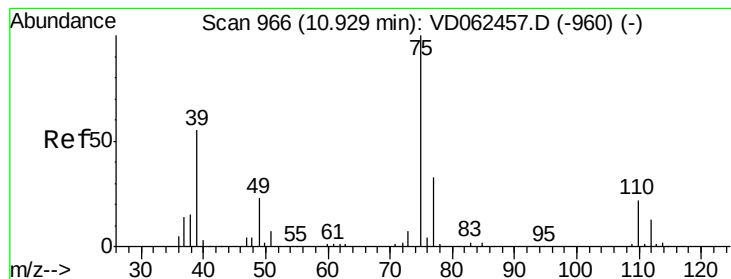
100000

0

10.40 10.50 10.60 10.70

Time-->





#53

t-1,3-Dichloropropene

Concen: 54.514 ug/l

RT: 10.90 min Scan# 963

Delta R.T. -0.03 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :

MSVOA_D

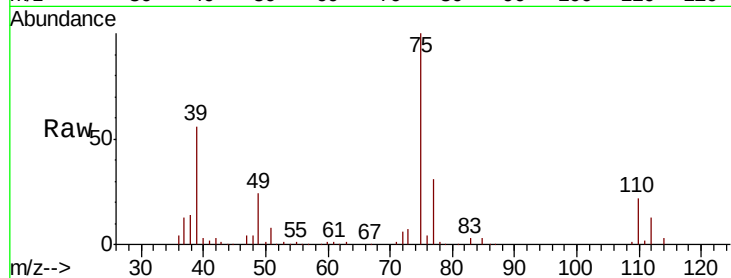
ClientSampled :

Tot Ion: 75 Resp: 492986

Ion Ratio Lower Upper

75 100

77 30.7 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

10.90

250000

200000

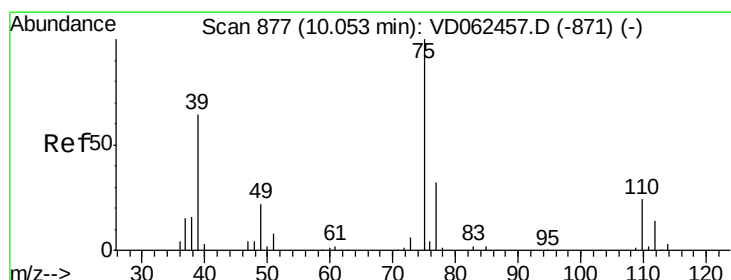
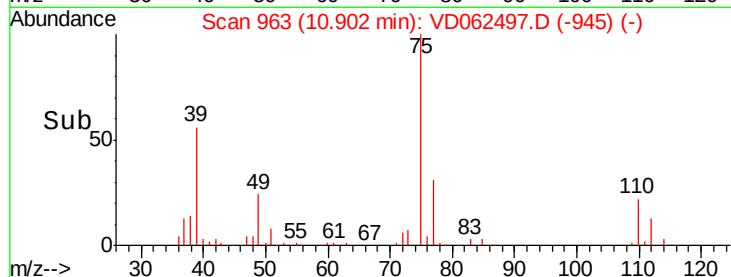
150000

100000

50000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 55.148 ug/l

RT: 10.03 min Scan# 874

Delta R.T. -0.03 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

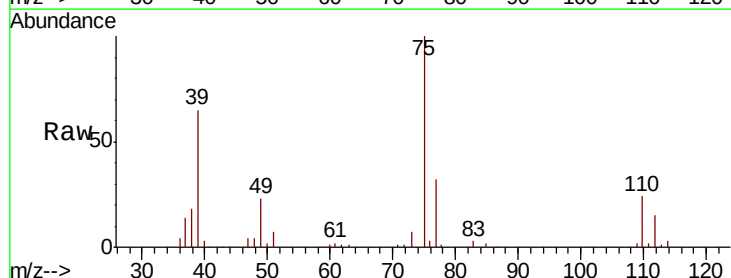
Tgt Ion: 75 Resp: 520379

Ion Ratio Lower Upper

75 100

77 31.7 25.5 38.3

39 64.8 39.4 59.2#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

10.03

300000

250000

200000

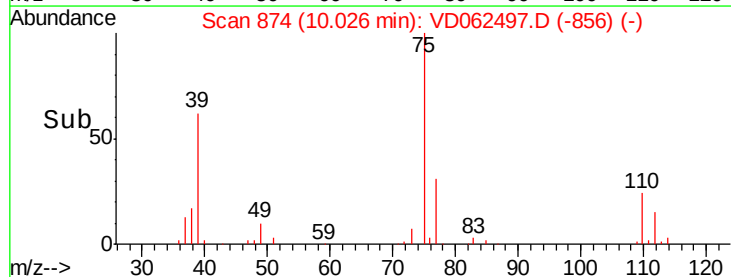
150000

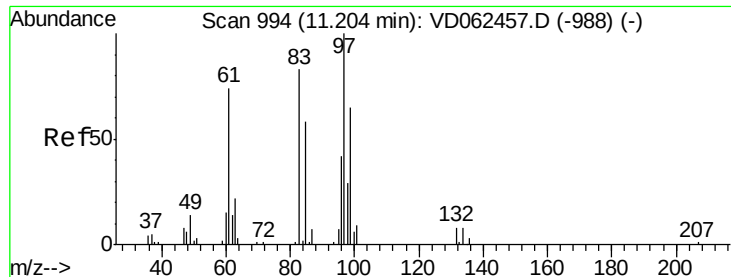
100000

50000

0

Time-->

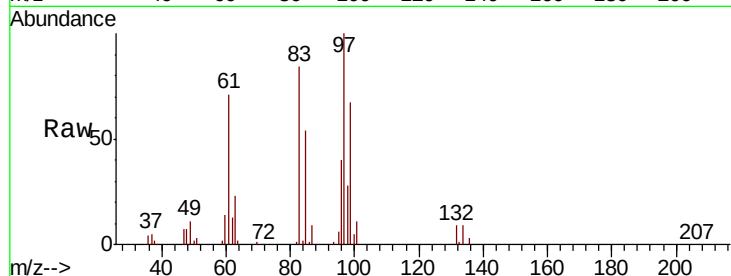




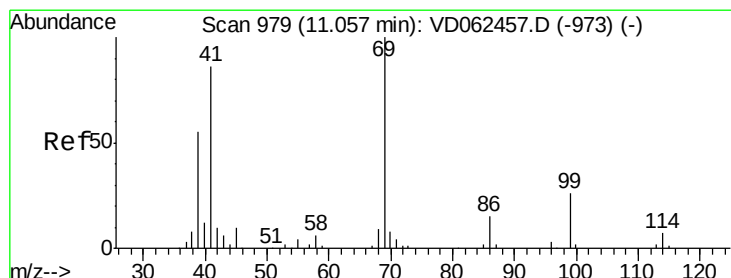
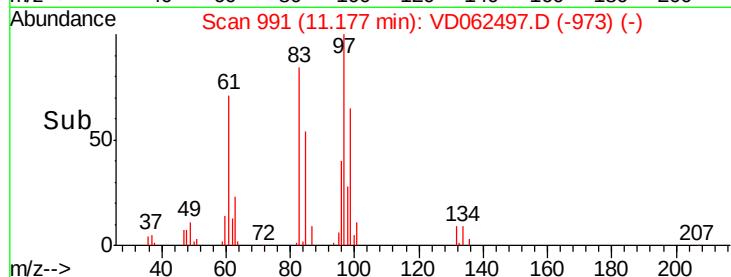
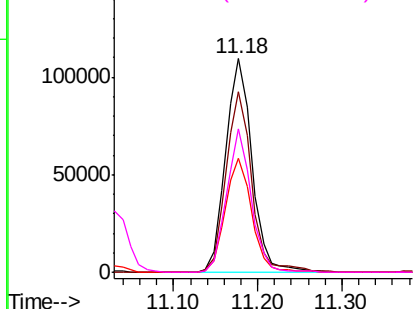
#55
1,1,2-Trichloroethane
Concen: 53.146 ug/l
RT: 11.18 min Scan# 991
Delta R.T. -0.03 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 97 Resp: 238341
Ion Ratio Lower Upper
97 100
83 84.3 65.7 98.5
85 53.6 45.6 68.4
99 67.0 48.4 72.6

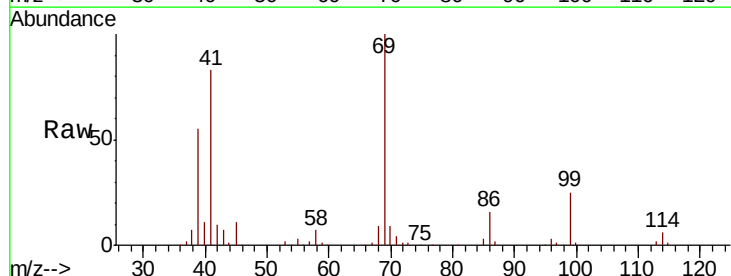


Abundance Ion 96.85 (96.55 to 97.55): VDC
Ion 82.95 (82.65 to 83.65): VDC
Ion 84.95 (84.65 to 85.65): VDC
Ion 98.85 (98.55 to 99.55): VDC

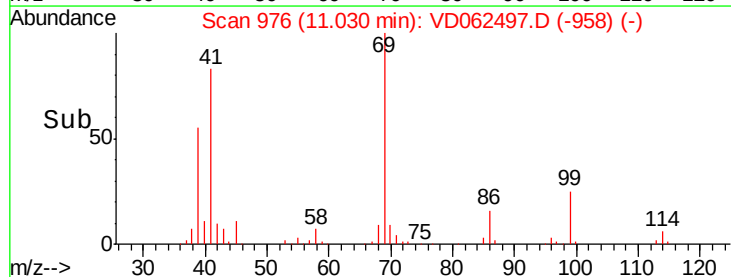
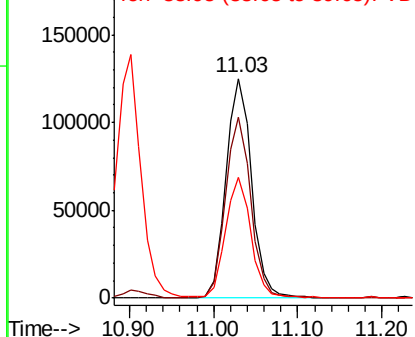


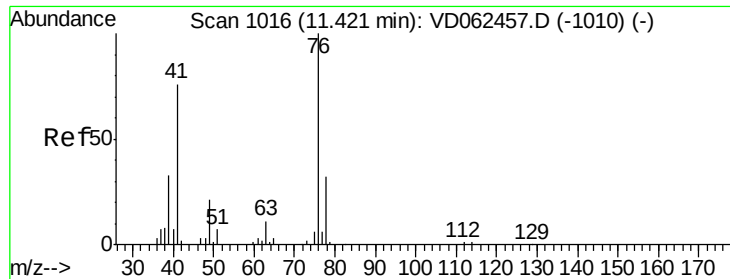
#56
Ethyl methacrylate
Concen: 54.991 ug/l
RT: 11.03 min Scan# 976
Delta R.T. -0.03 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Tgt Ion: 69 Resp: 263641
Ion Ratio Lower Upper
69 100
41 82.5 56.3 84.5
39 55.2 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: 49.506 ug/l

RT: 11.39 min Scan# 1013

Delta R.T. -0.03 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :

MSVOA_D

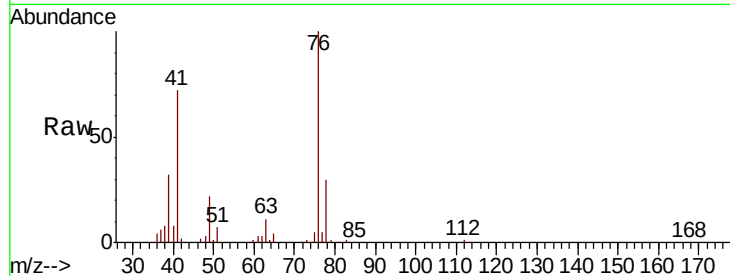
ClientSampleId :

Tot Ion: 76 Resp: 340488

Ion Ratio Lower Upper

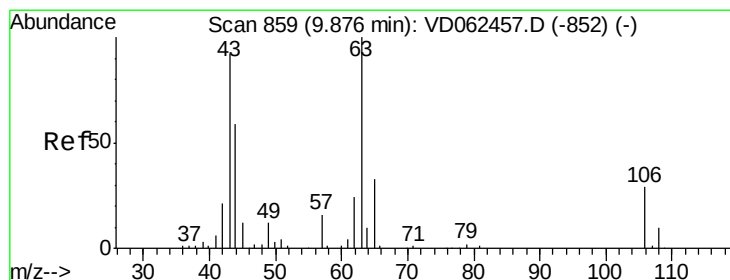
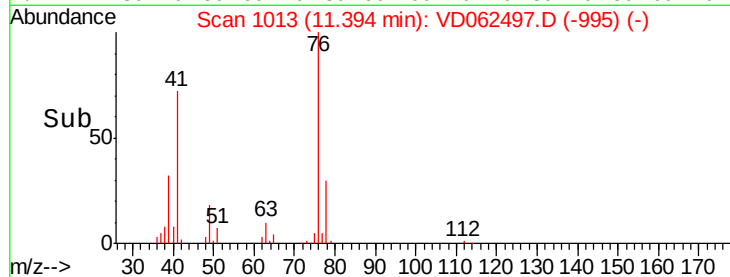
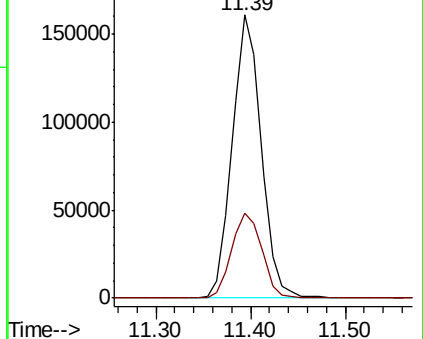
76 100

78 30.0 26.2 39.2



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 240.113 ug/l

RT: 9.85 min Scan# 856

Delta R.T. -0.03 min

Lab File: VD062497.D

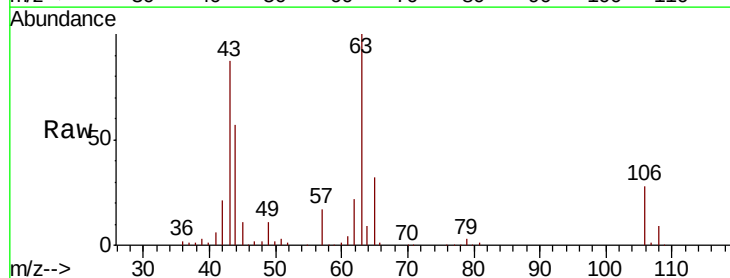
Acq: 22 May 2019 12:00

Tgt Ion: 63 Resp: 591113

Ion Ratio Lower Upper

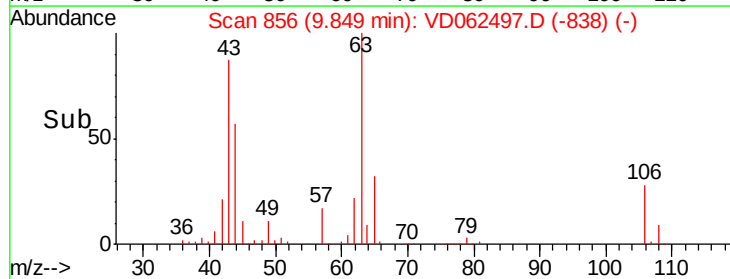
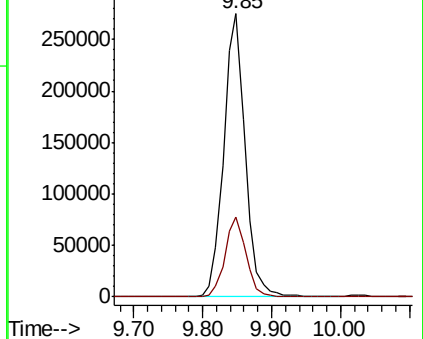
63 100

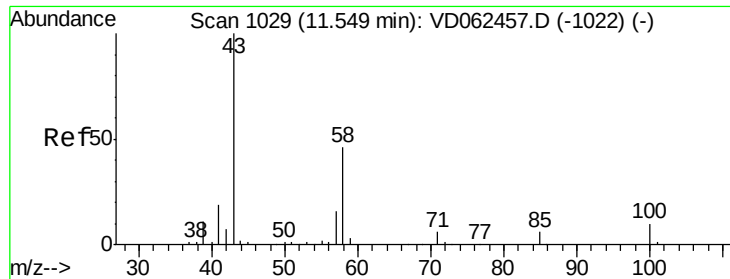
106 28.4 22.6 34.0



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): VDC

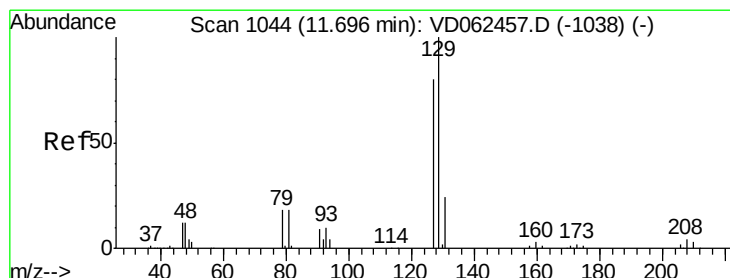
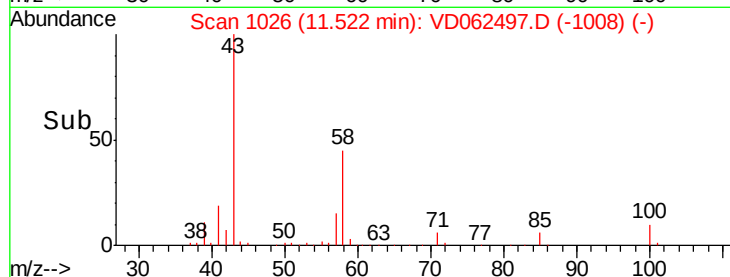
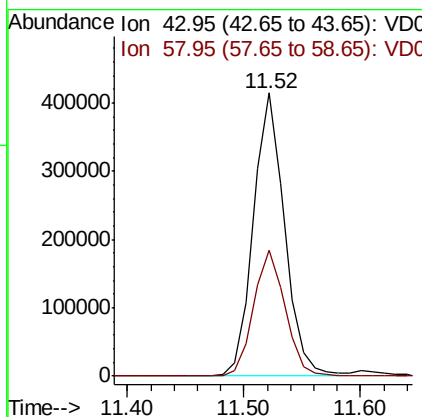
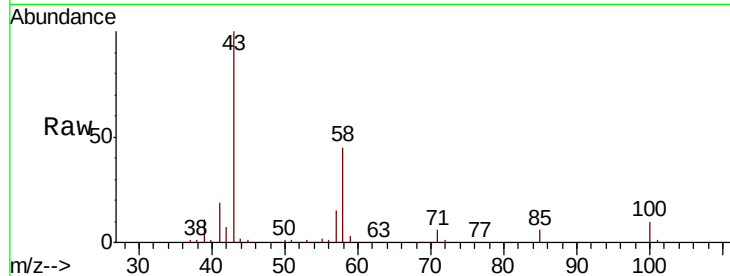




#59
2-Hexanone
Concen: 314.125 ug/l
RT: 11.52 min Scan# 1026
Delta R.T. -0.03 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

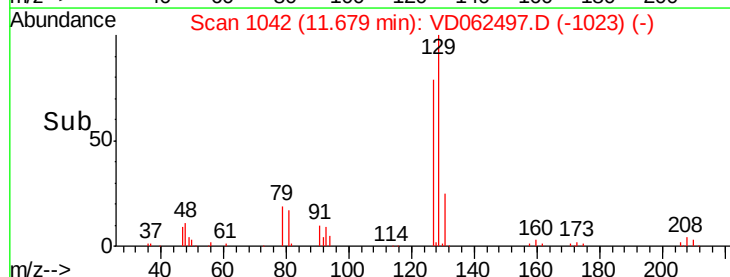
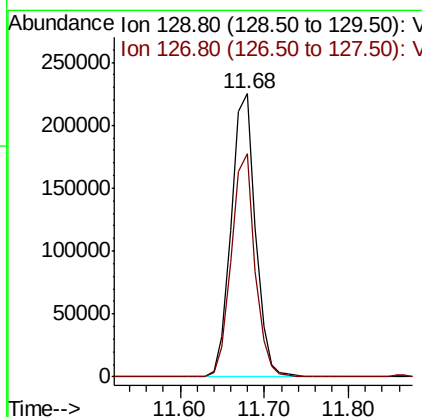
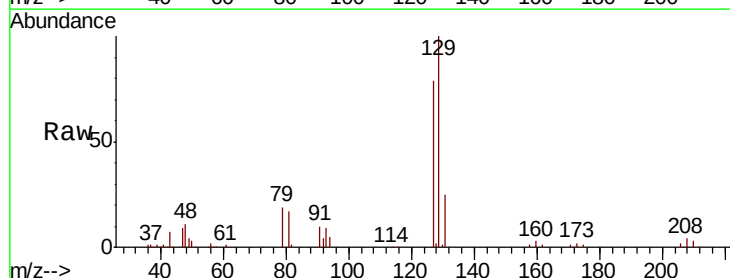
Instrument :
MSVOA_D
ClientSampleId :

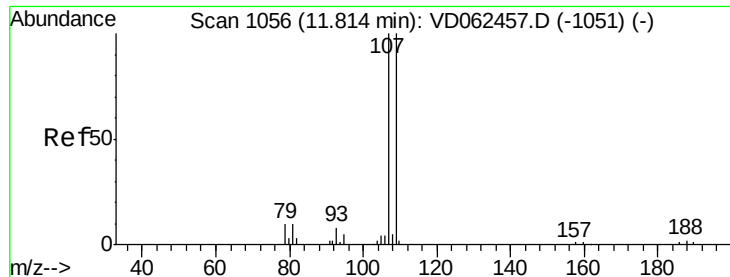
Tot Ion: 43 Resp: 765933
Ion Ratio Lower Upper
43 100
58 44.7 25.4 76.4



#60
Dibromochloromethane
Concen: 52.487 ug/l
RT: 11.68 min Scan# 1042
Delta R.T. -0.02 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Tgt Ion:129 Resp: 452111
Ion Ratio Lower Upper
129 100
127 78.9 38.0 113.9





#61

1,2-Dibromoethane

Concen: 56.488 ug/l

RT: 11.80 min Scan# 1054

Delta R.T. -0.02 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :

MSVOA_D

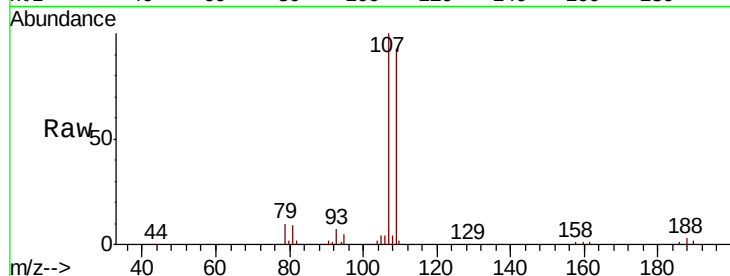
ClientSampleId :

Tot Ion:107 Resp: 312197

Ion Ratio Lower Upper

107 100

109 93.3 78.3 117.5



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V

11.80

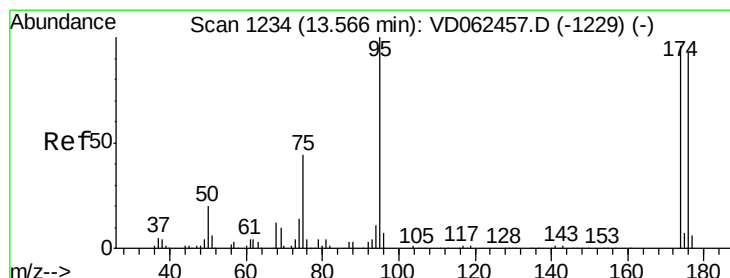
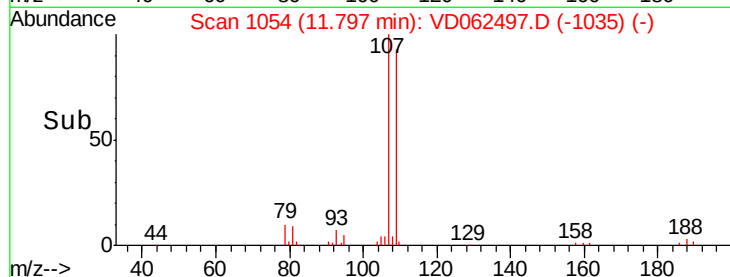
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 48.048 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.02 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

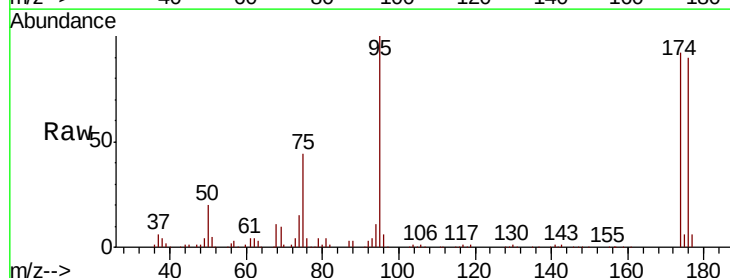
Tgt Ion: 95 Resp: 427671

Ion Ratio Lower Upper

95 100

174 91.6 0.0 181.8

176 90.3 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

13.55

400000

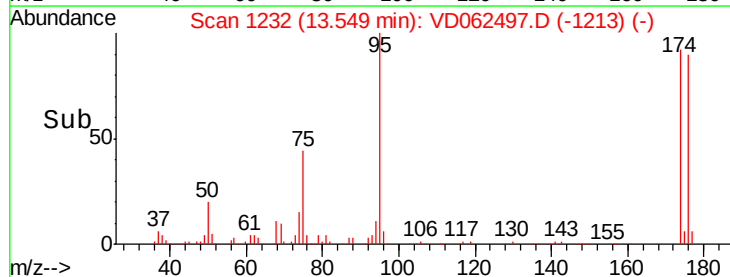
300000

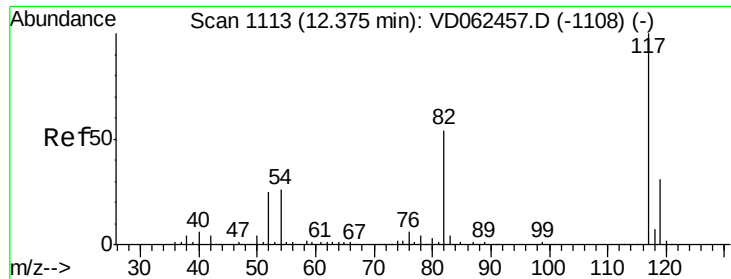
200000

100000

0

Time-->

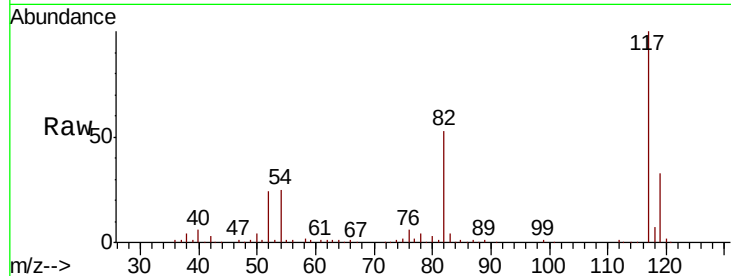




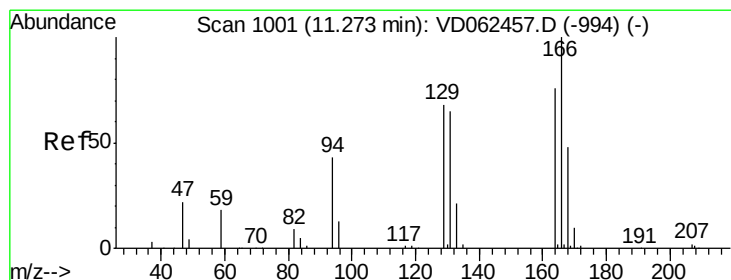
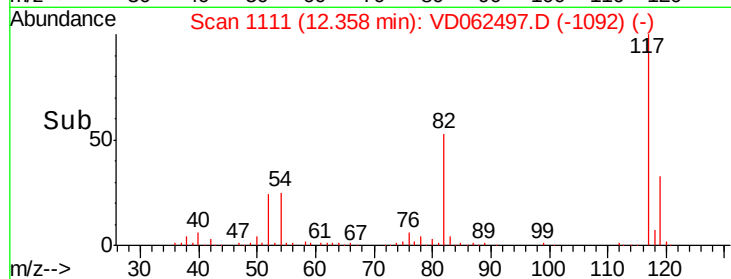
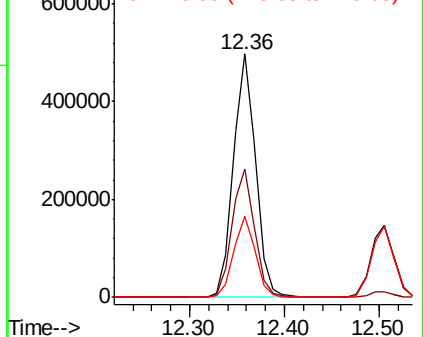
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. -0.02 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 809243
Ion Ratio Lower Upper
117 100
82 52.6 36.2 54.2
119 33.4 26.2 39.4

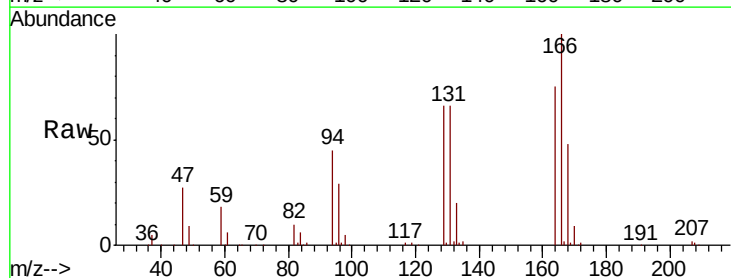


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

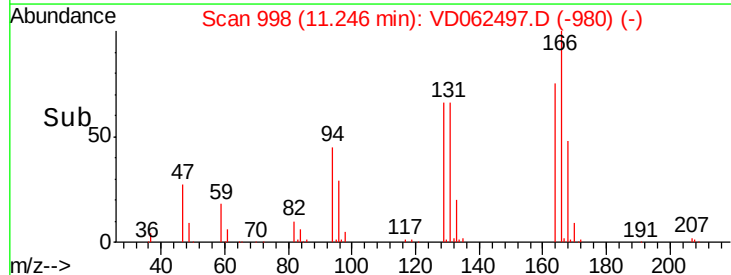
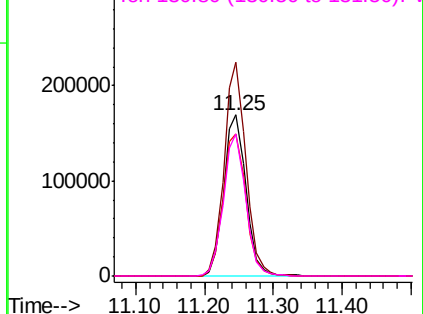


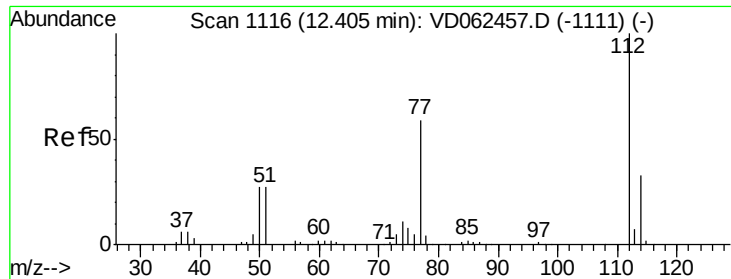
#64
Tetrachloroethene
Concen: 55.894 ug/l
RT: 11.25 min Scan# 998
Delta R.T. -0.03 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Tgt Ion:164 Resp: 378726
Ion Ratio Lower Upper
164 100
166 132.8 101.5 152.3
129 88.2 74.6 112.0
131 88.2 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

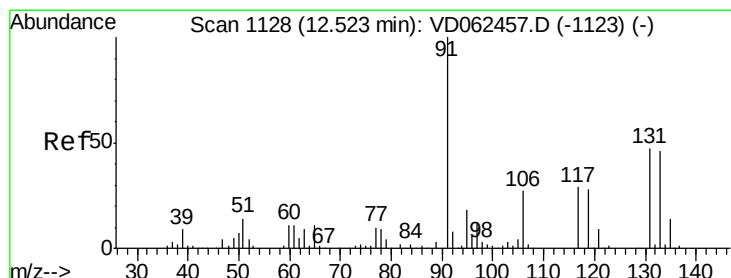
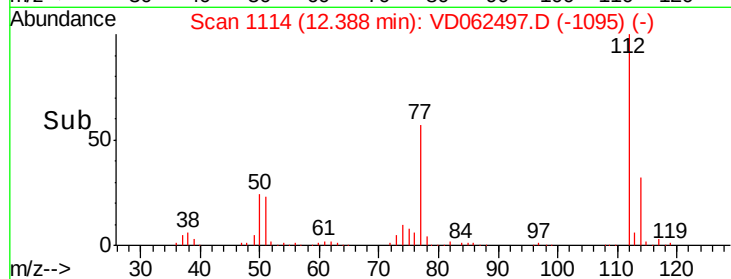
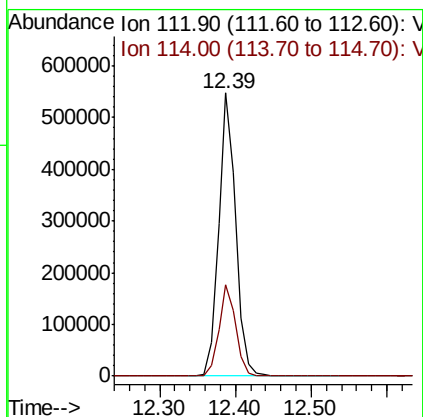
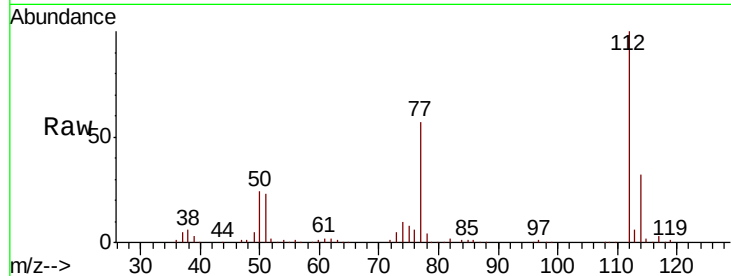




#65
Chlorobenzene
Concen: 55.433 ug/l
RT: 12.39 min Scan# 1114
Delta R.T. -0.02 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

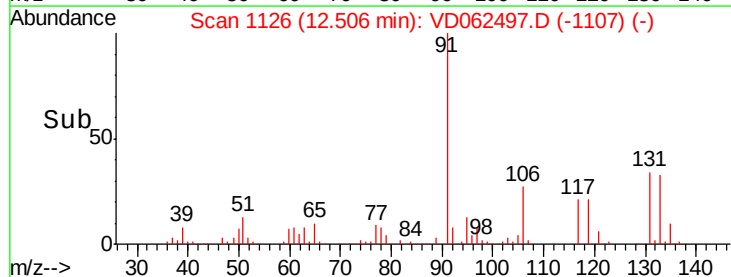
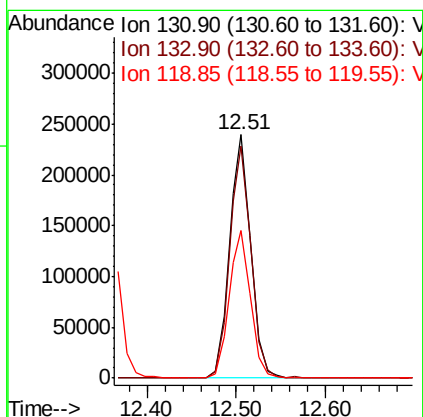
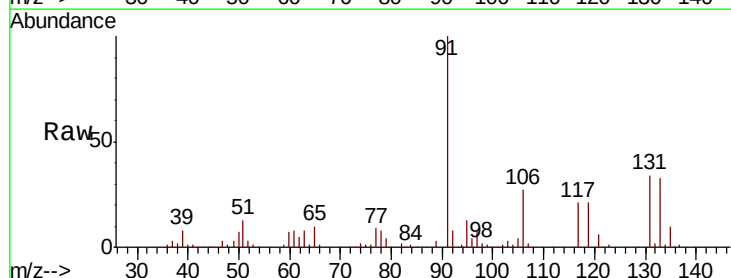
Instrument :
MSVOA_D
ClientSampleId :

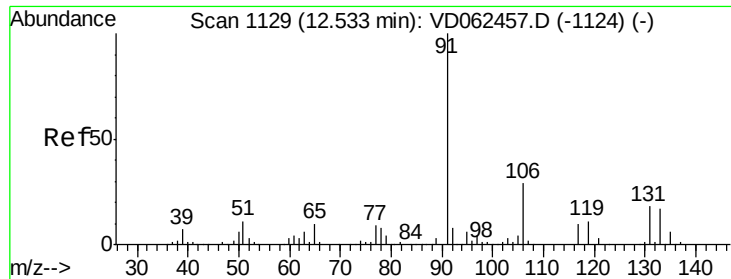
Tot Ion:112 Resp: 862656
Ion Ratio Lower Upper
112 100
114 32.3 25.8 38.8



#66
1,1,1,2-Tetrachloroethane
Concen: 55.956 ug/l
RT: 12.51 min Scan# 1126
Delta R.T. -0.02 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Tgt Ion:131 Resp: 401963
Ion Ratio Lower Upper
131 100
133 95.4 48.6 145.8
119 60.6 34.7 104.1

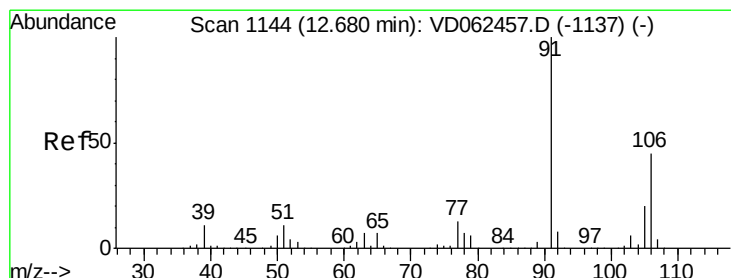
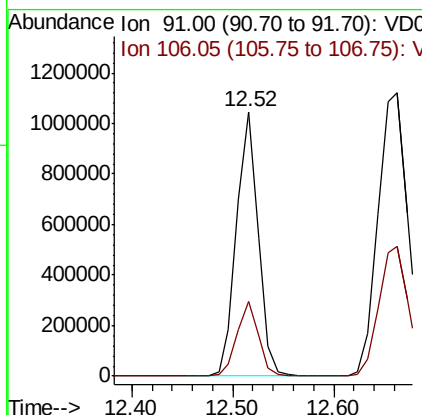
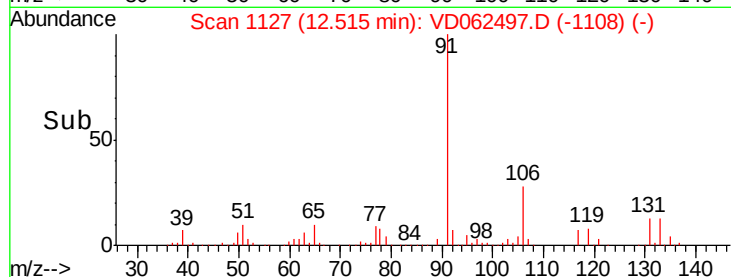
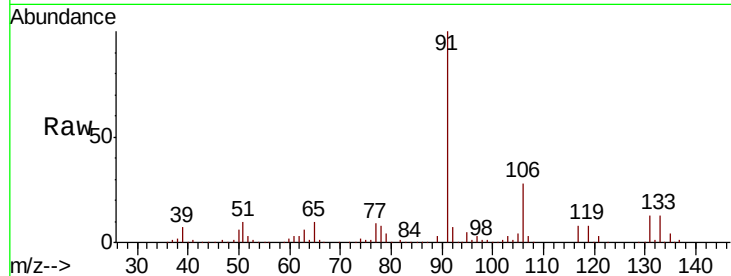




#67
Ethyl Benzene
Concen: 58.384 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. -0.02 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

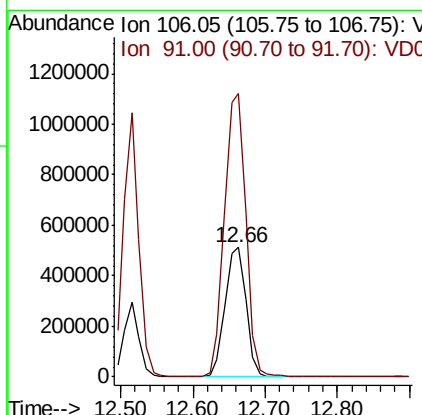
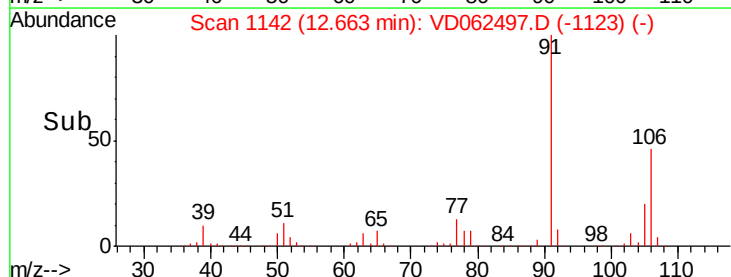
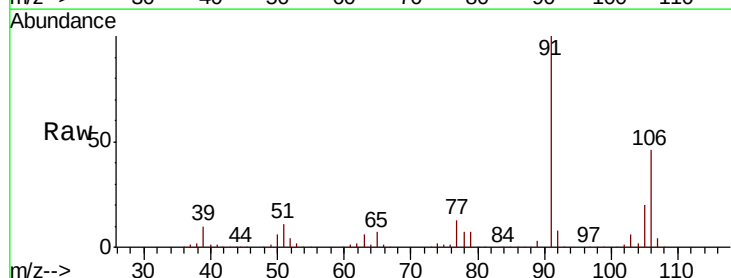
Instrument :
MSVOA_D
ClientSampleId :

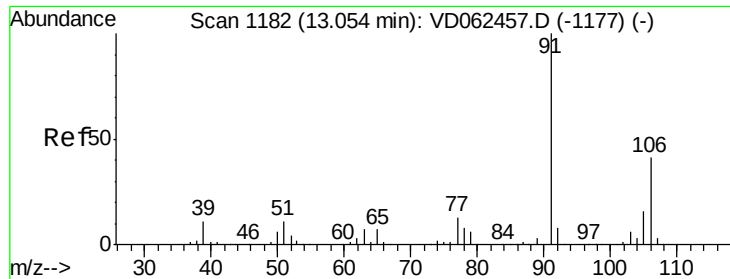
Tot Ion: 91 Resp: 1564961
Ion Ratio Lower Upper
91 100
106 28.1 24.7 37.1



#68
m/p-Xylenes
Concen: 107.569 ug/l
RT: 12.66 min Scan# 1142
Delta R.T. -0.02 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Tgt Ion:106 Resp: 1035008
Ion Ratio Lower Upper
106 100
91 218.5 164.0 246.0

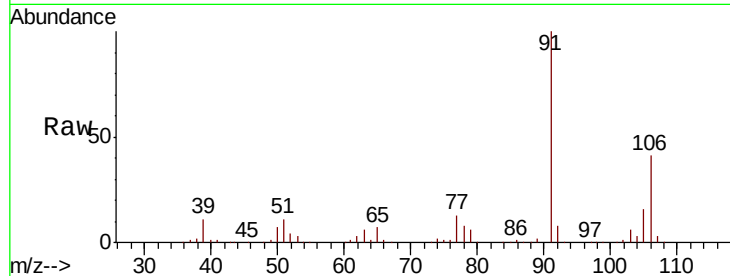




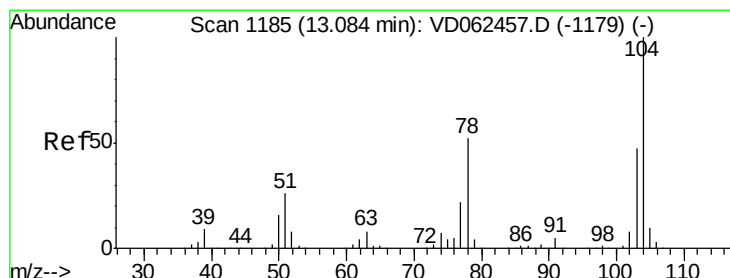
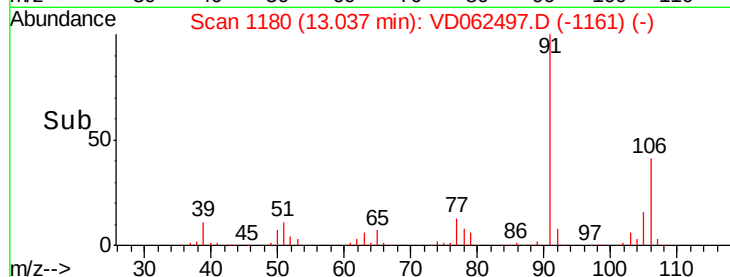
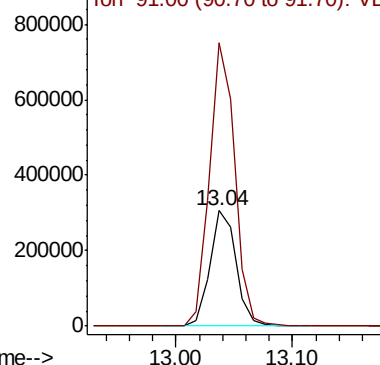
#69
o-Xylene
Concen: 52.034 ug/l
RT: 13.04 min Scan# 1180
Delta R.T. -0.02 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:106 Resp: 472387
Ion Ratio Lower Upper
106 100
91 244.8 106.7 319.9

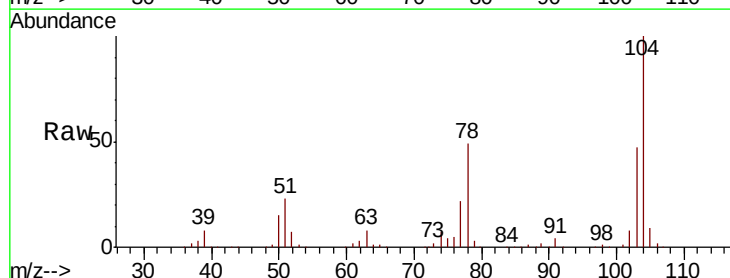


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

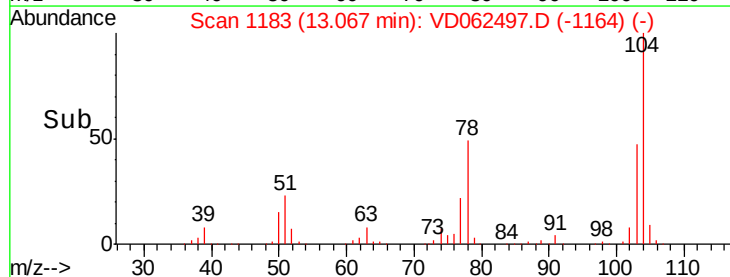
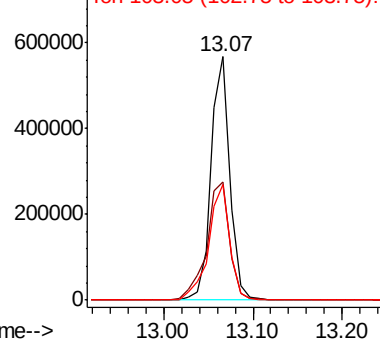


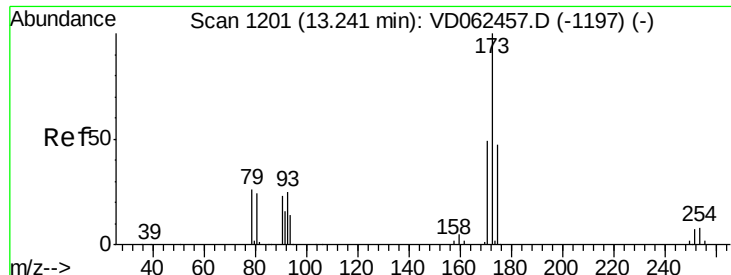
#70
Styrene
Concen: 54.115 ug/l
RT: 13.07 min Scan# 1183
Delta R.T. -0.02 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Tgt Ion:104 Resp: 835750
Ion Ratio Lower Upper
104 100
78 48.5 35.4 53.2
103 47.4 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

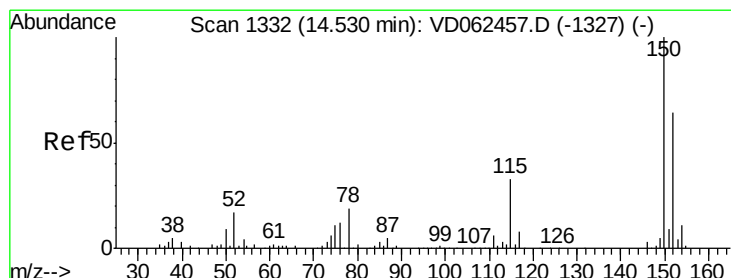
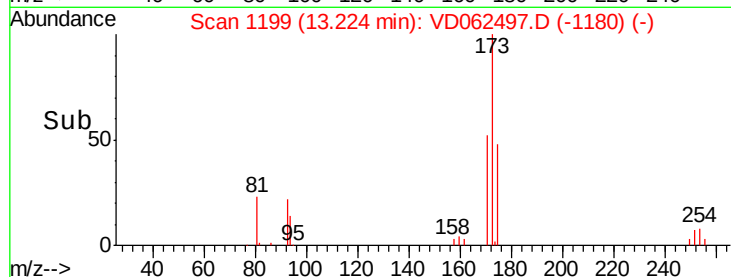
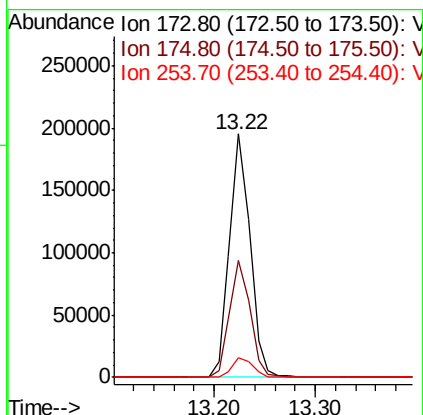
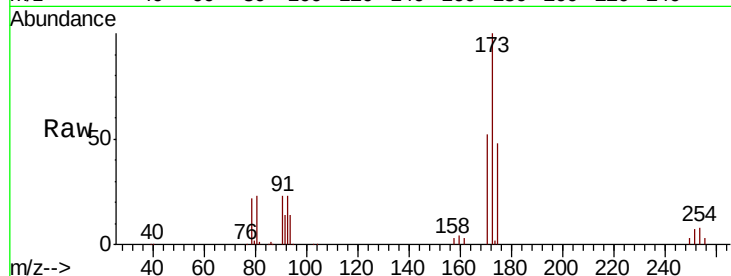




#71
Bromoform
Concen: 58.055 ug/l
RT: 13.22 min Scan# 1199
Delta R.T. -0.02 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

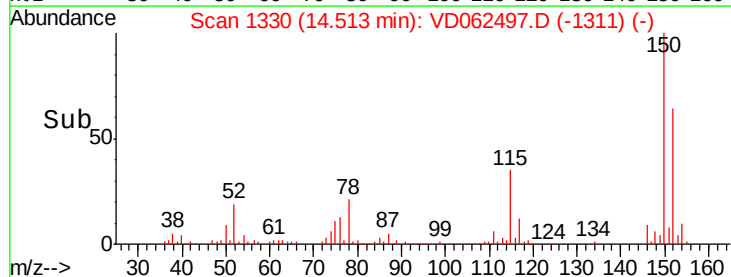
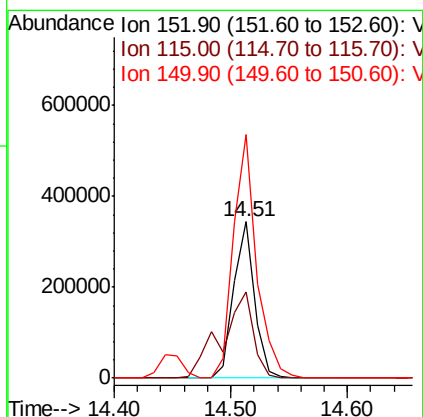
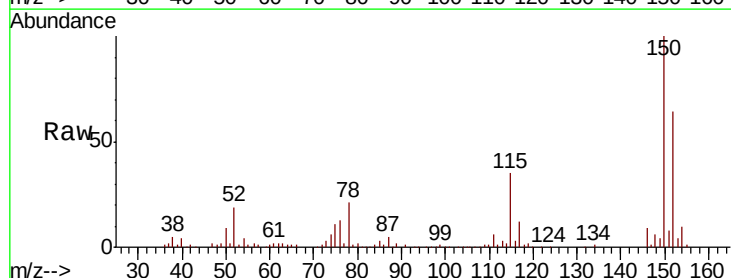
Instrument :
MSVOA_D
ClientSampled :

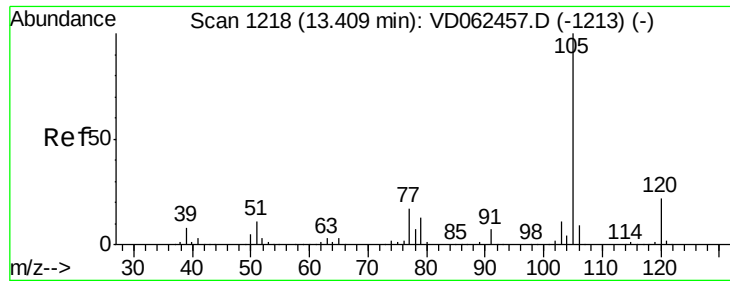
Tot Ion:173 Resp: 276959
Ion Ratio Lower Upper
173 100
175 48.1 24.4 73.4
254 8.0 5.4 8.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1330
Delta R.T. -0.02 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Tgt Ion:152 Resp: 426891
Ion Ratio Lower Upper
152 100
115 55.3 30.9 92.7
150 156.0 0.0 314.8





#73

Isopropylbenzene

Concen: 55.625 ug/l

RT: 13.39 min Scan# 1216

Delta R.T. -0.02 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :

MSVOA_D

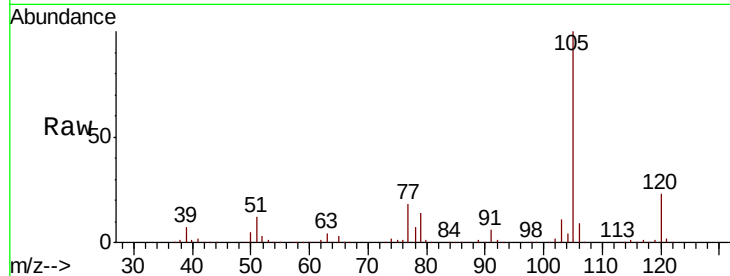
ClientSampleId :

Tot Ion:105 Resp: 1496795

Ion Ratio Lower Upper

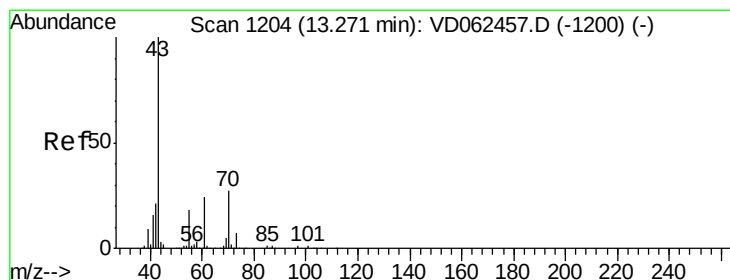
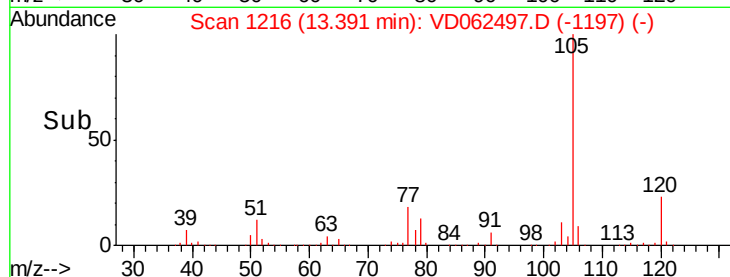
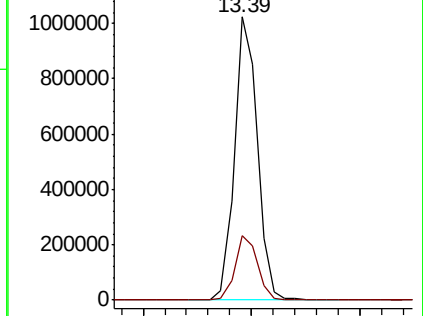
105 100

120 22.6 12.0 36.1



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 58.258 ug/l

RT: 13.25 min Scan# 1202

Delta R.T. -0.02 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Tgt Ion: 43 Resp: 387180

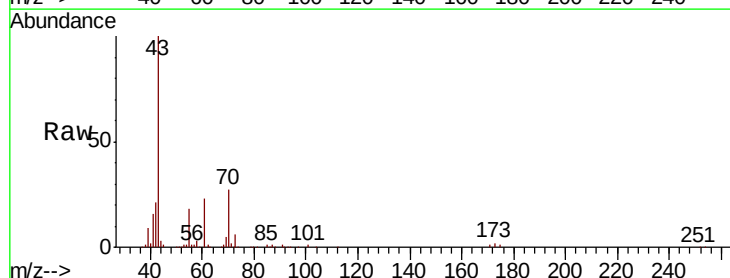
Ion Ratio Lower Upper

43 100

70 27.5 24.2 36.4

55 18.3 16.0 24.0

61 23.4 21.6 32.4

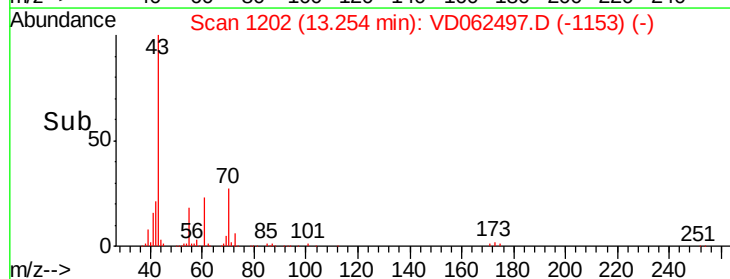
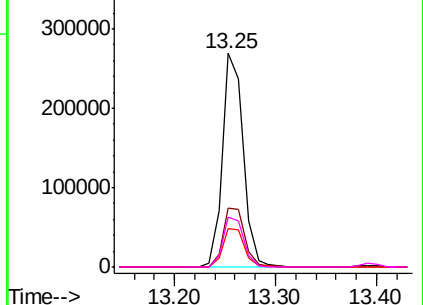


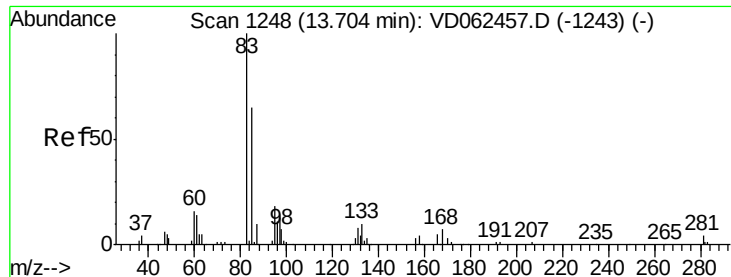
Abundance Ion 42.95 (42.65 to 43.65): V

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





#75

1,1,2,2-Tetrachloroethane

Concen: 58.234 ug/l

RT: 13.69 min Scan# 1246

Delta R.T. -0.02 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :

MSVOA_D

ClientSampleId :

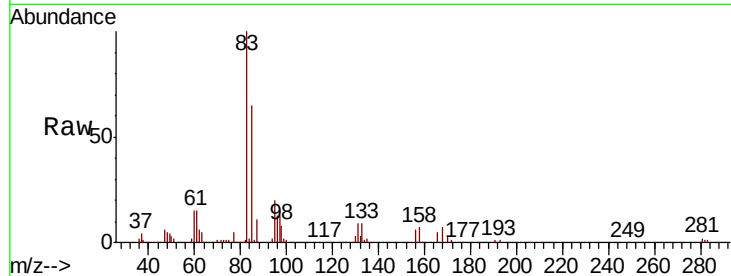
Tot Ion: 83 Resp: 282696

Ion Ratio Lower Upper

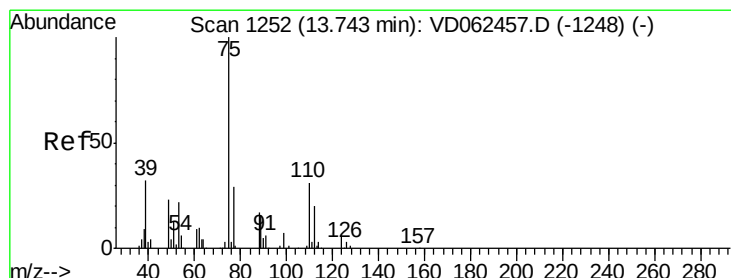
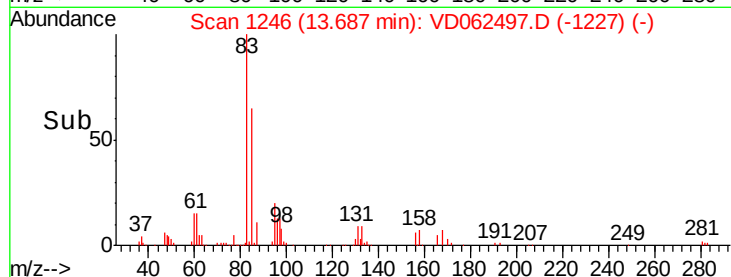
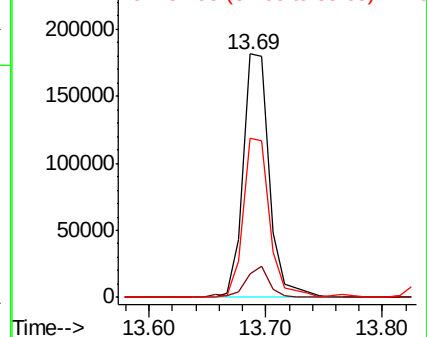
83 100

131 9.5 5.0 14.9

85 65.3 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: 59.891 ug/l

RT: 13.73 min Scan# 1250

Delta R.T. -0.02 min

Lab File: VD062497.D

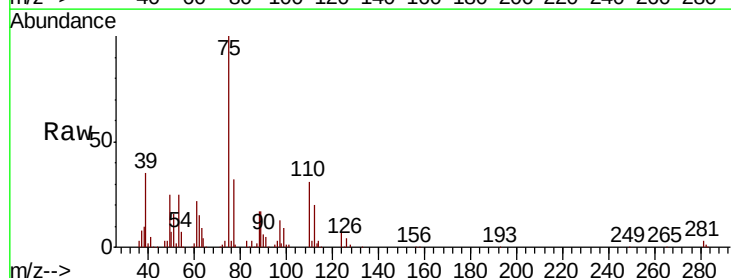
Acq: 22 May 2019 12:00

Tgt Ion: 75 Resp: 301150

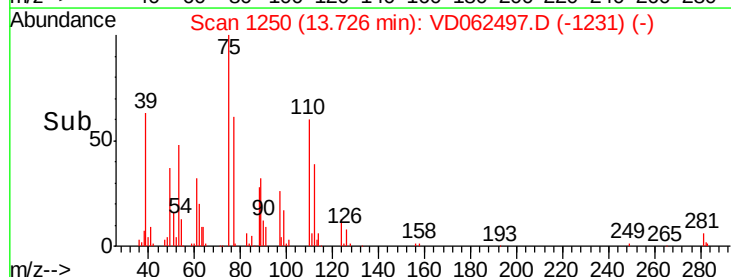
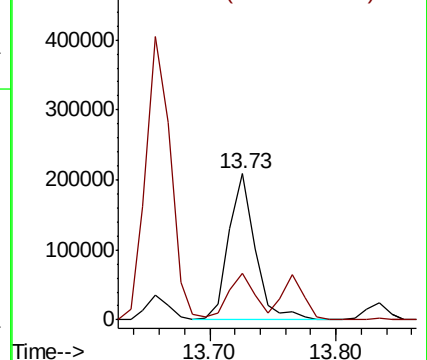
Ion Ratio Lower Upper

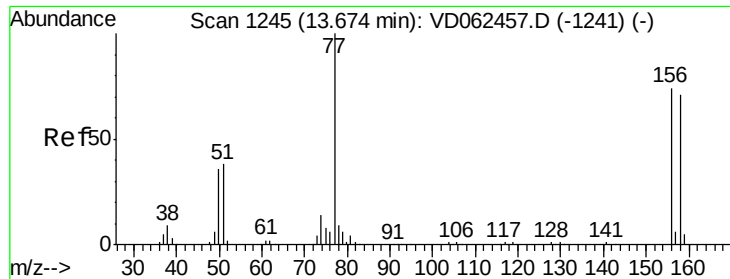
75 100

77 32.1 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: 58.849 ug/l

RT: 13.66 min Scan# 1243

Delta R.T. -0.02 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :

MSVOA_D

ClientSampleId :

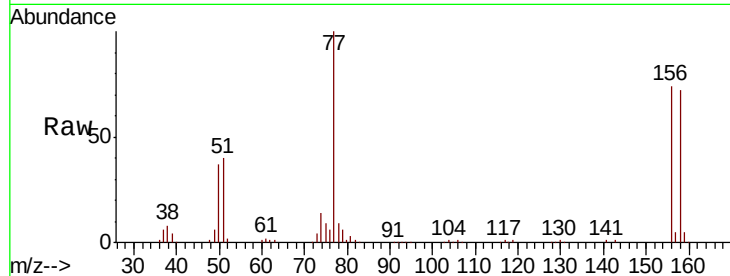
Tot Ion:156 Resp: 449213

Ion Ratio Lower Upper

156 100

77 135.5 53.1 159.4

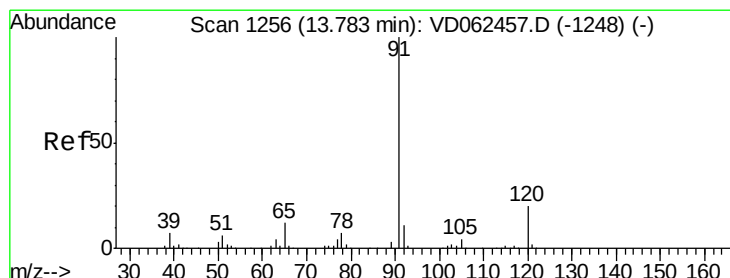
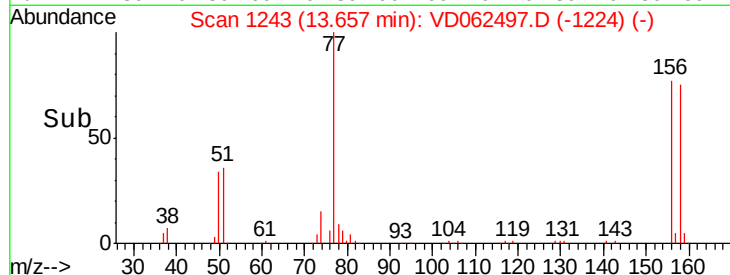
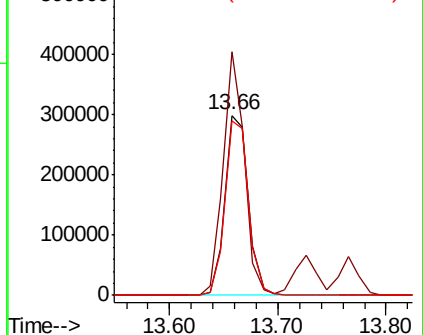
158 97.4 49.4 148.0



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: 60.872 ug/l

RT: 13.77 min Scan# 1254

Delta R.T. -0.02 min

Lab File: VD062497.D

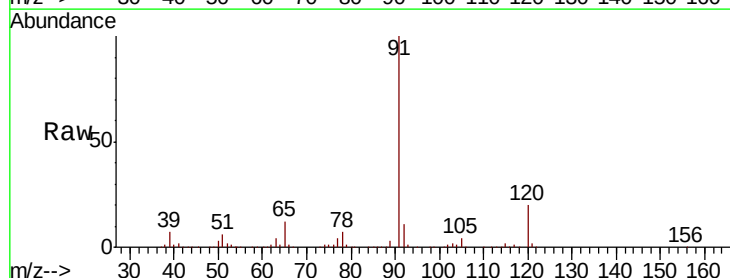
Acq: 22 May 2019 12:00

Tgt Ion: 91 Resp: 1897309

Ion Ratio Lower Upper

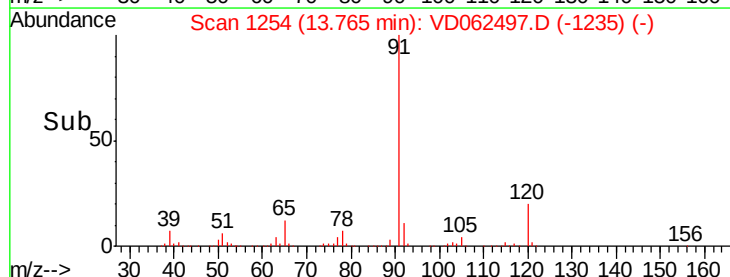
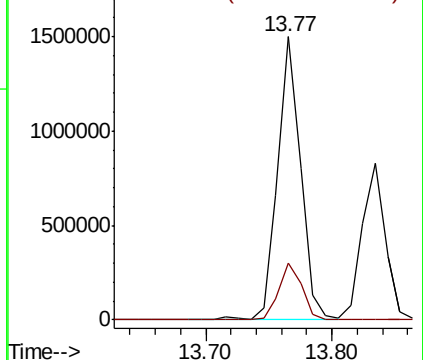
91 100

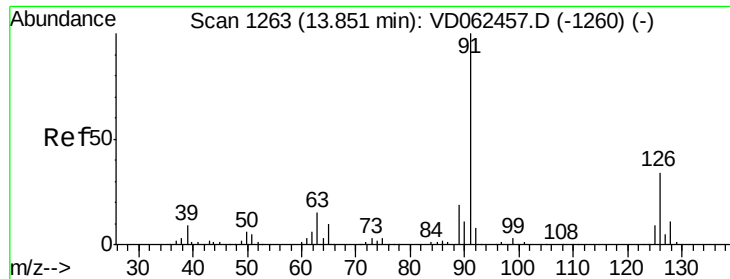
120 20.2 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 56.531 ug/l

RT: 13.83 min Scan# 1261

Delta R.T. -0.02 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :

MSVOA_D

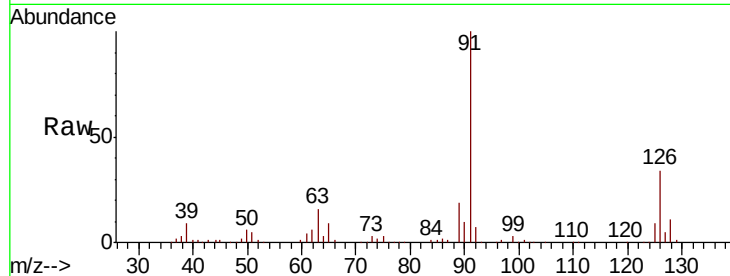
ClientSampleId :

Tot Ion: 91 Resp: 1069296

Ion Ratio Lower Upper

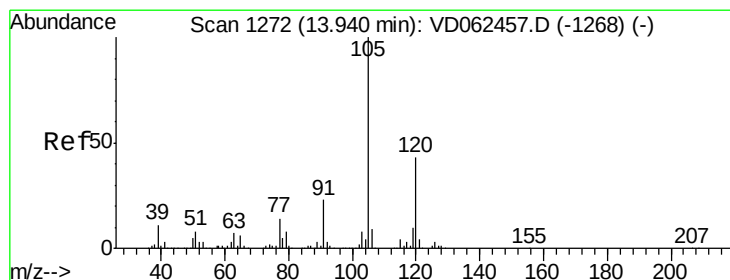
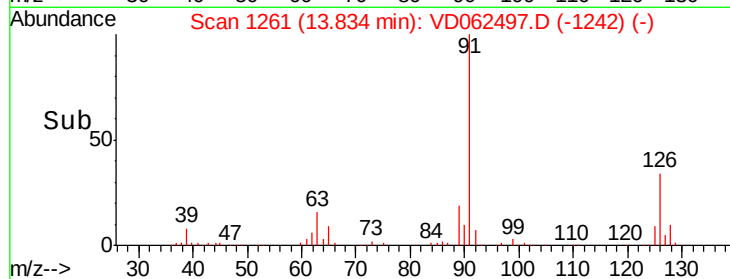
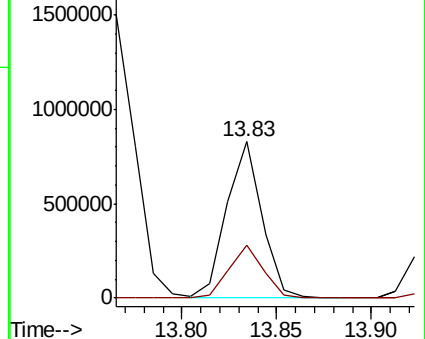
91 100

126 34.0 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: 54.958 ug/l

RT: 13.92 min Scan# 1270

Delta R.T. -0.02 min

Lab File: VD062497.D

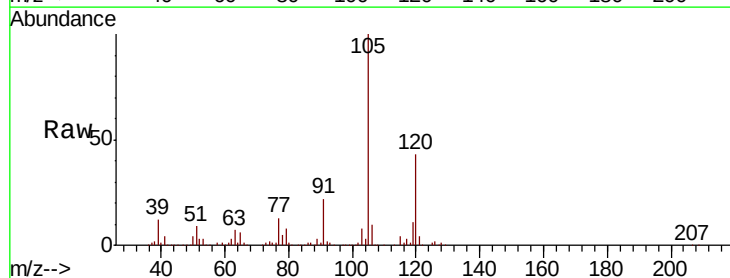
Acq: 22 May 2019 12:00

Tgt Ion:105 Resp: 1280452

Ion Ratio Lower Upper

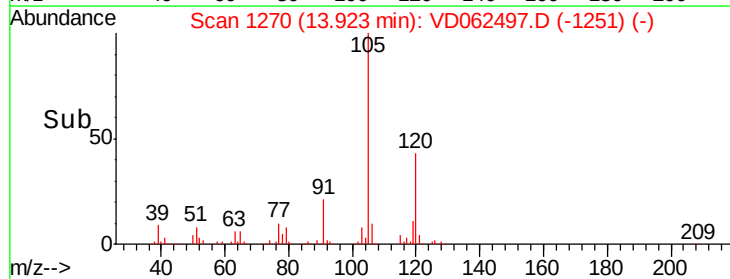
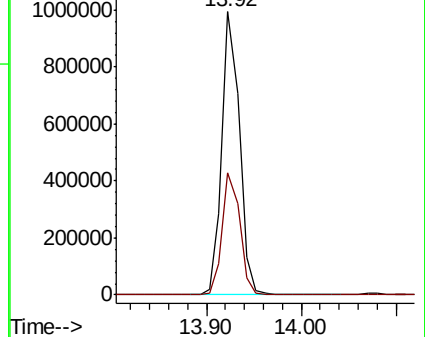
105 100

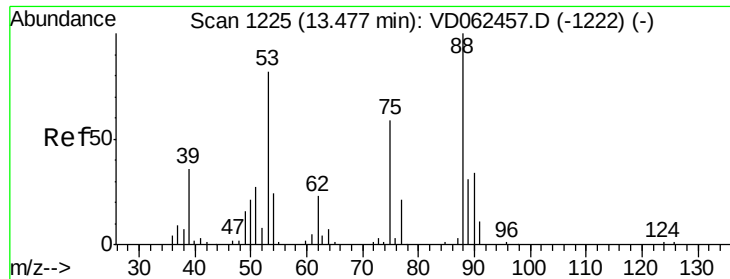
120 43.0 24.0 72.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

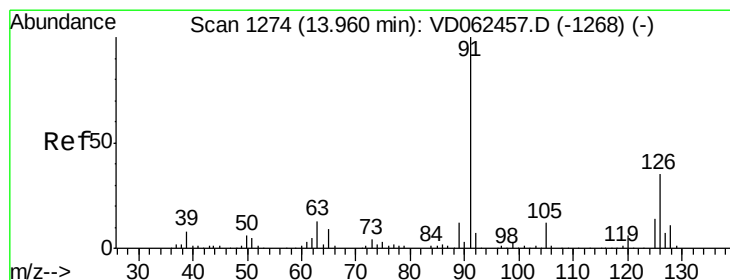
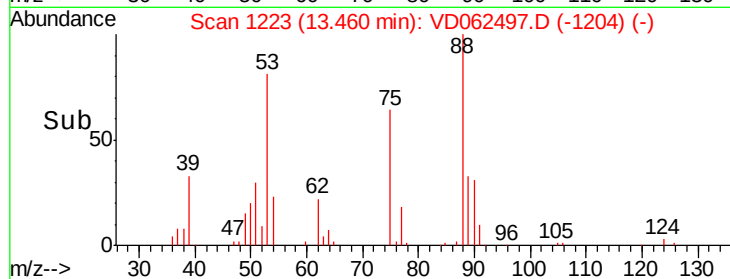
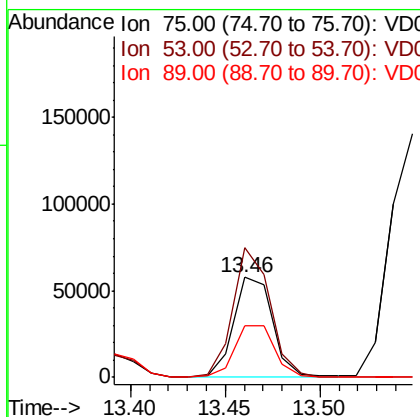
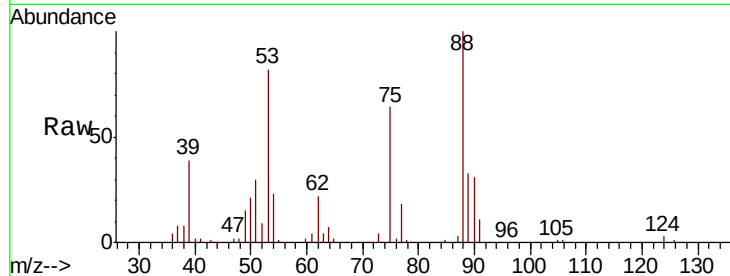




#81
trans-1,4-Dichloro-2-butene
Concen: 58.295 ug/l
RT: 13.46 min Scan# 1223
Delta R.T. -0.02 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

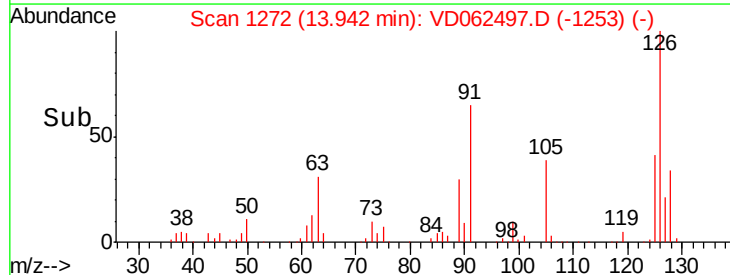
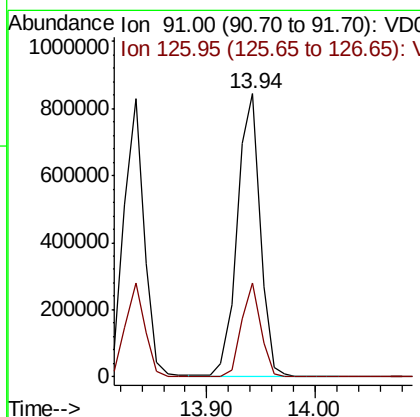
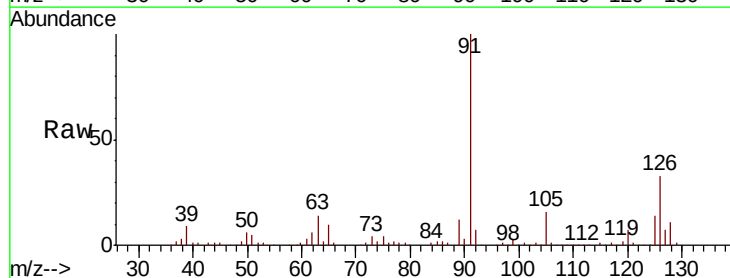
Instrument :
MSVOA_D
ClientSampleId :

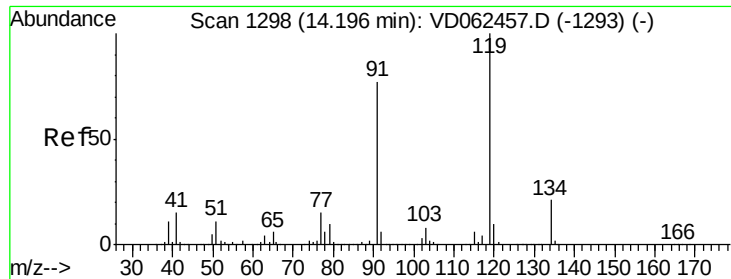
Tot Ion: 75 Resp: 82669
Ion Ratio Lower Upper
75 100
53 129.5 65.8 98.8#
89 51.3 35.0 52.6



#82
4-Chlorotoluene
Concen: 56.945 ug/l
RT: 13.94 min Scan# 1272
Delta R.T. -0.02 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Tgt Ion: 91 Resp: 1240482
Ion Ratio Lower Upper
91 100
126 33.4 19.1 57.5

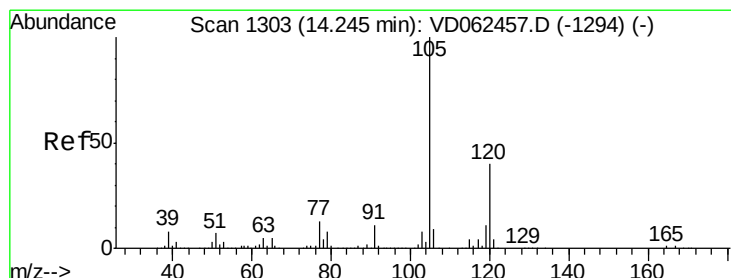
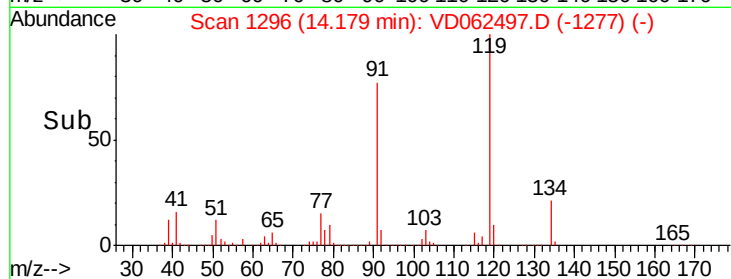
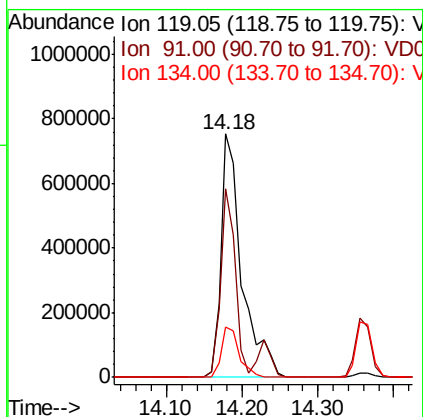
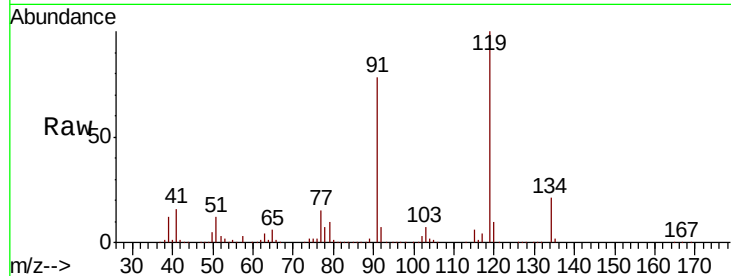




#83
 tert-Butylbenzene
 Concen: 56.258 ug/l
 RT: 14.18 min Scan# 1296
 Delta R.T. -0.02 min
 Lab File: VD062497.D
 Acq: 22 May 2019 12:00

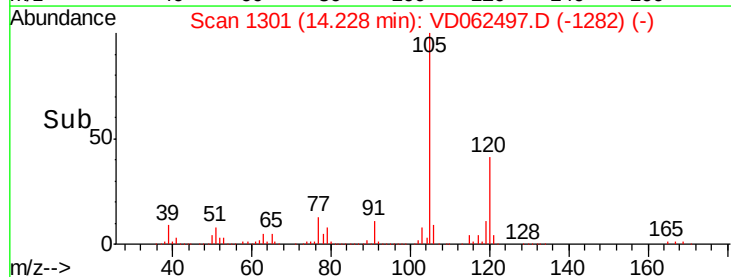
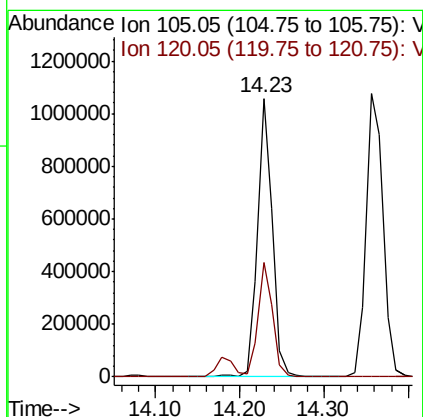
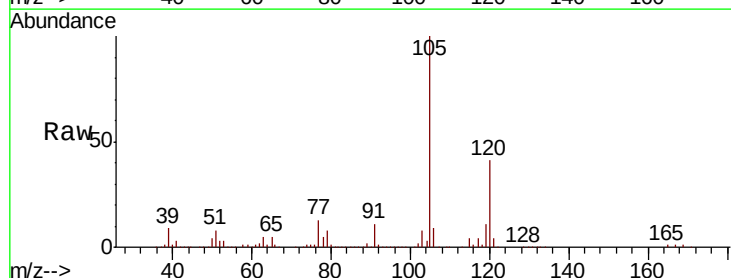
Instrument :
 MSVOA_D
 ClientSampleId :

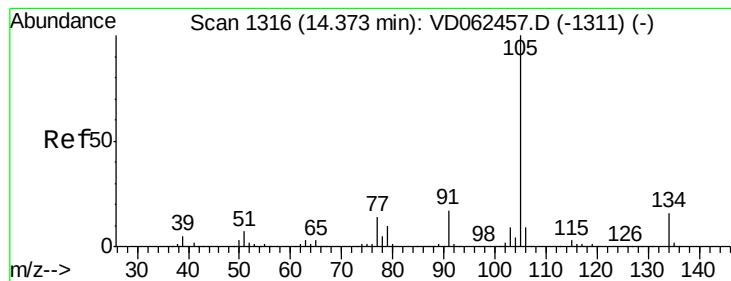
Tot Ion:119 Resp: 1453929
 Ion Ratio Lower Upper
 119 100
 91 77.6 34.2 102.6
 134 20.7 12.0 36.0



#84
 1,2,4-Trimethylbenzene
 Concen: 54.849 ug/l
 RT: 14.23 min Scan# 1301
 Delta R.T. -0.02 min
 Lab File: VD062497.D
 Acq: 22 May 2019 12:00

Tgt Ion:105 Resp: 1309452
 Ion Ratio Lower Upper
 105 100
 120 41.0 23.1 69.2





#85

sec-Butylbenzene

Concen: 55.455 ug/l

RT: 14.36 min Scan# 1314

Delta R.T. -0.02 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :

MSVOA_D

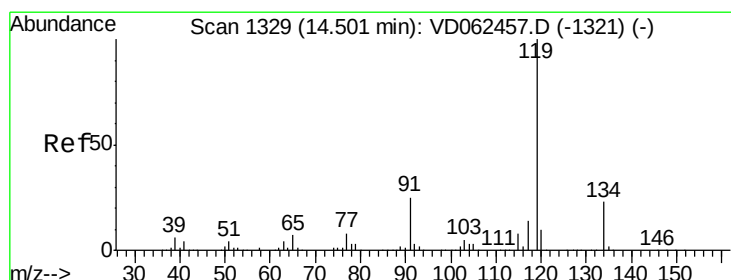
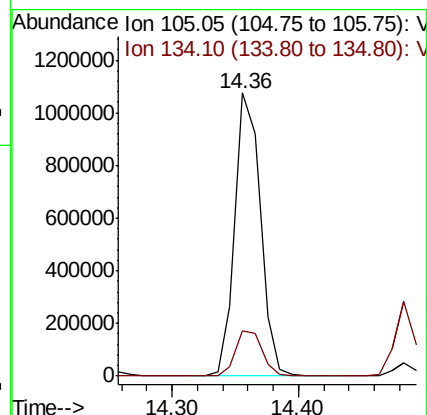
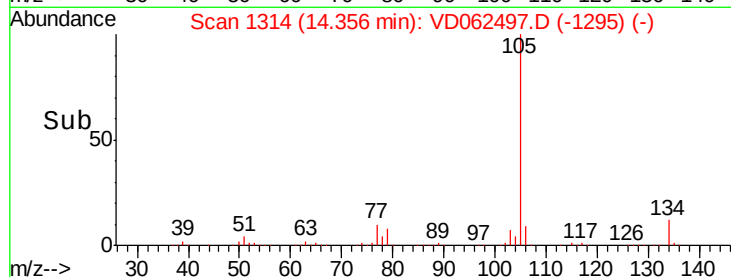
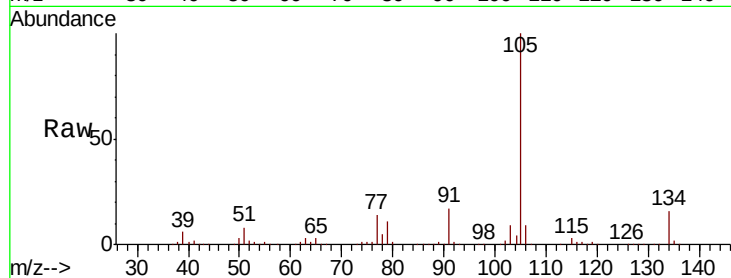
ClientSampleId :

Tot Ion:105 Resp: 1494395

Ion Ratio Lower Upper

105 100

134 15.9 8.9 26.7



#86

p-Isopropyltoluene

Concen: 57.934 ug/l

RT: 14.48 min Scan# 1327

Delta R.T. -0.02 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

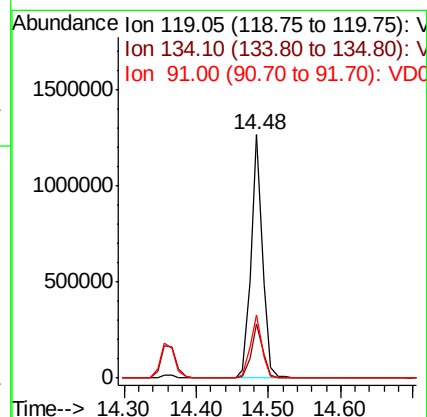
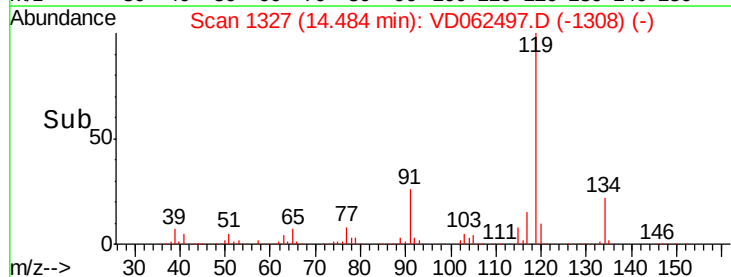
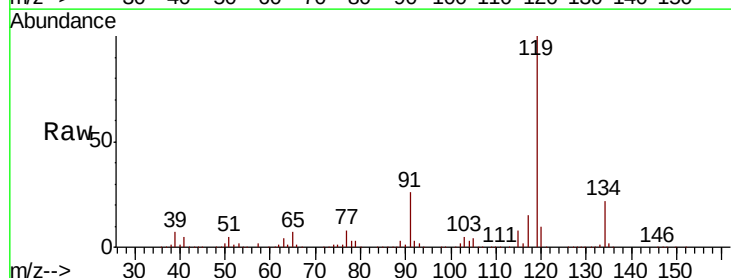
Tgt Ion:119 Resp: 1414791

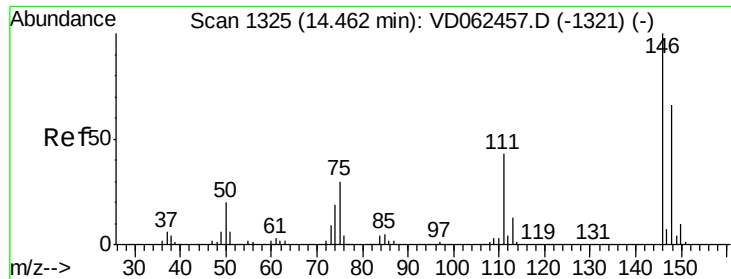
Ion Ratio Lower Upper

119 100

134 22.4 12.8 38.3

91 26.2 10.7 32.1

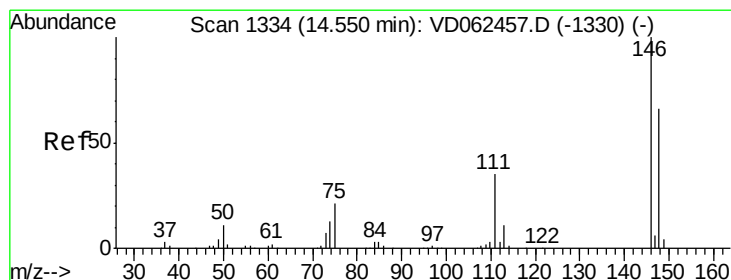
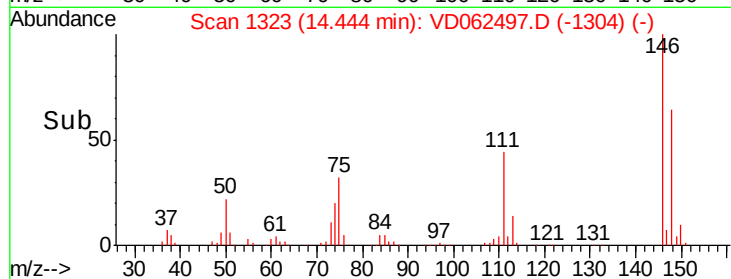
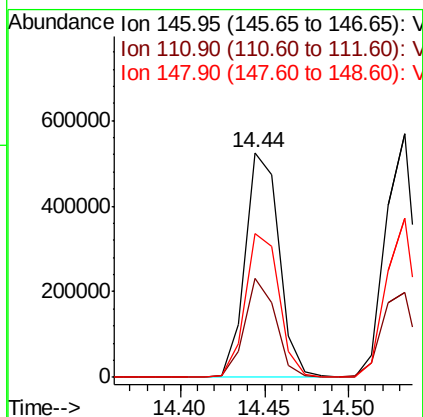
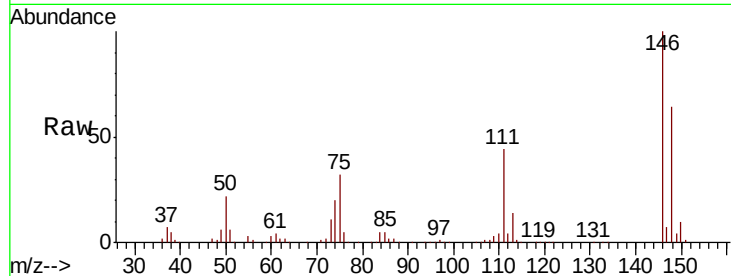




#87
 1,3-Dichlorobenzene
 Concen: 54.361 ug/l
 RT: 14.44 min Scan# 1323
 Delta R.T. -0.02 min
 Lab File: VD062497.D
 Acq: 22 May 2019 12:00

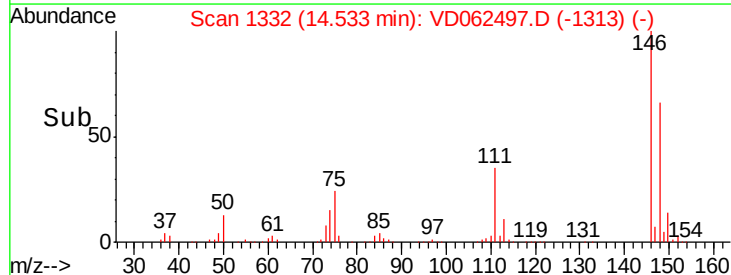
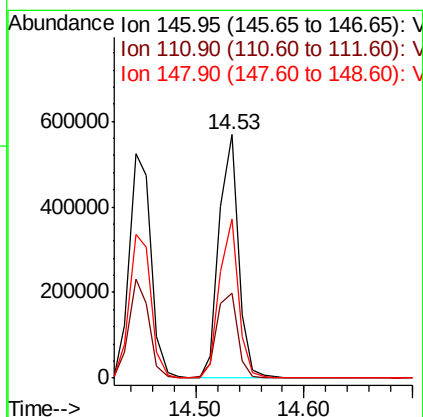
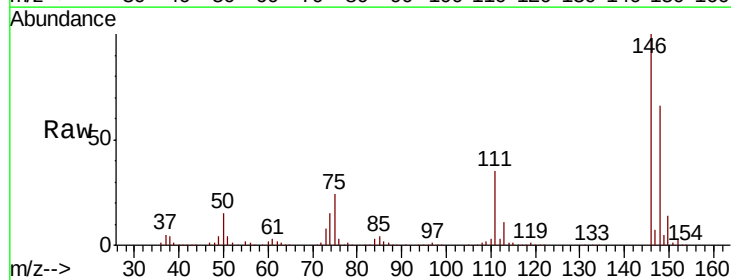
Instrument :
 MSVOA_D
 ClientSampleId :

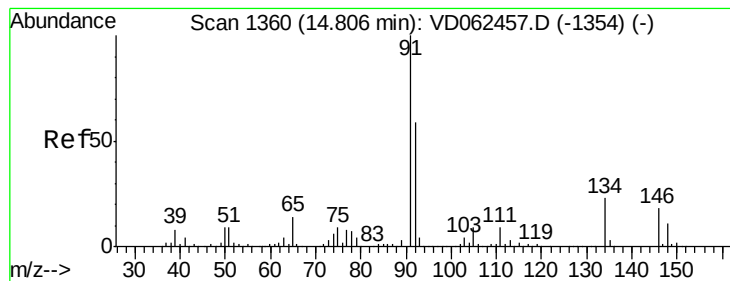
Tot Ion	Ratio	Lower	Upper
146	100		
111	43.9	20.0	60.0
148	64.0	31.8	95.4



#88
 1,4-Dichlorobenzene
 Concen: 54.682 ug/l
 RT: 14.53 min Scan# 1332
 Delta R.T. -0.02 min
 Lab File: VD062497.D
 Acq: 22 May 2019 12:00

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.0	20.2	60.5
148	65.5	32.0	96.2





#89

n-Butylbenzene

Concen: 55.424 ug/l

RT: 14.79 min Scan# 1358

Delta R.T. -0.02 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :

MSVOA_D

ClientSampled :

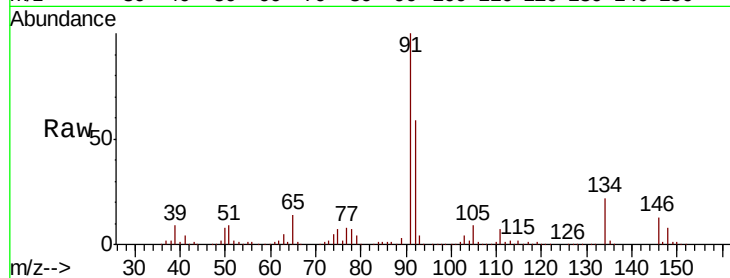
Tot Ion: 91 Resp: 1306232

Ion Ratio Lower Upper

91 100

92 59.2 30.3 91.0

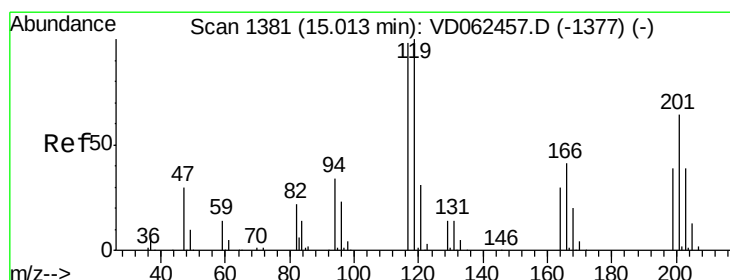
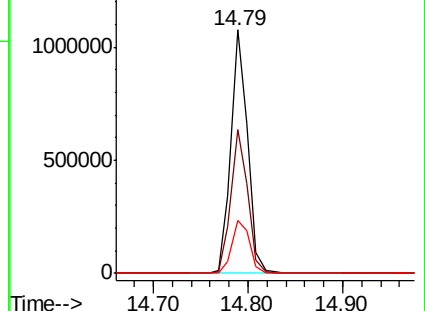
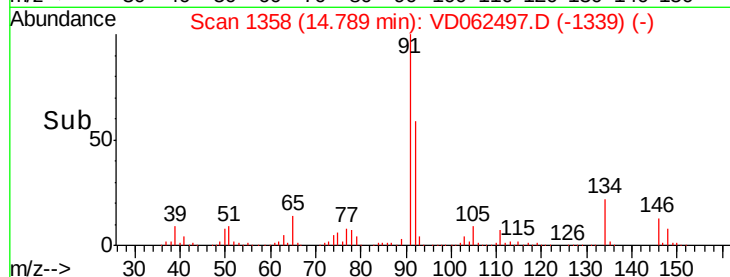
134 21.5 14.5 43.6



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: 58.286 ug/l

RT: 15.00 min Scan# 1379

Delta R.T. -0.02 min

Lab File: VD062497.D

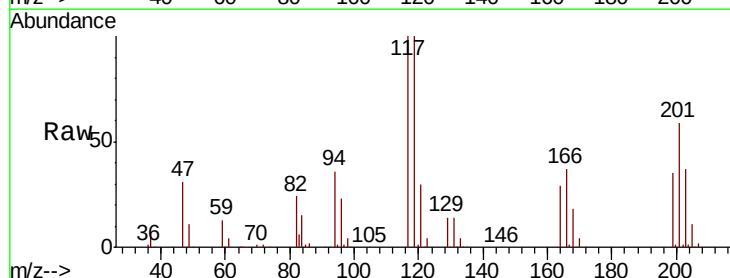
Acq: 22 May 2019 12:00

Tgt Ion: 117 Resp: 393380

Ion Ratio Lower Upper

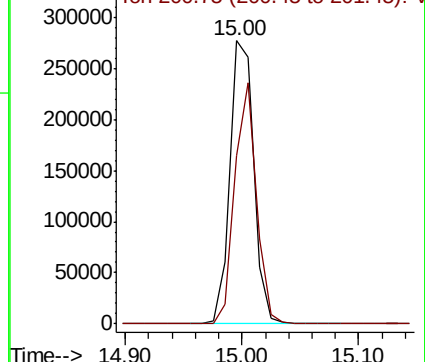
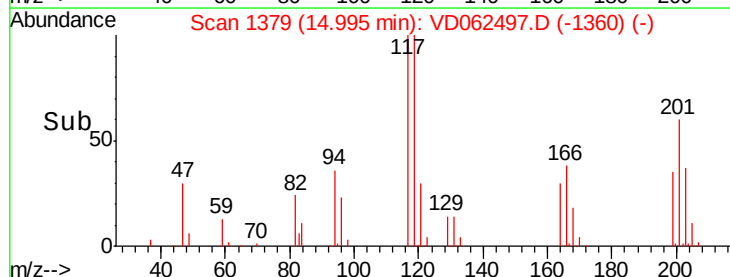
117 100

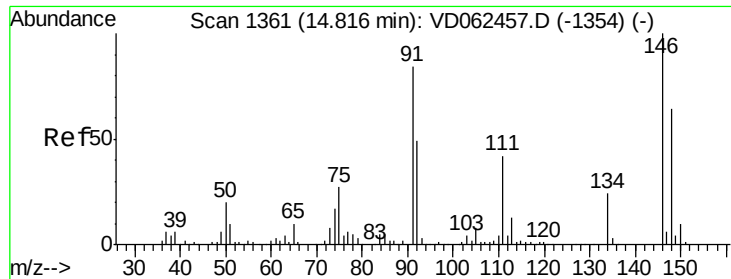
201 59.5 30.2 90.6



Abundance Ion 116.85 (116.55 to 117.55): VDC

Ion 200.75 (200.45 to 201.45): VDC

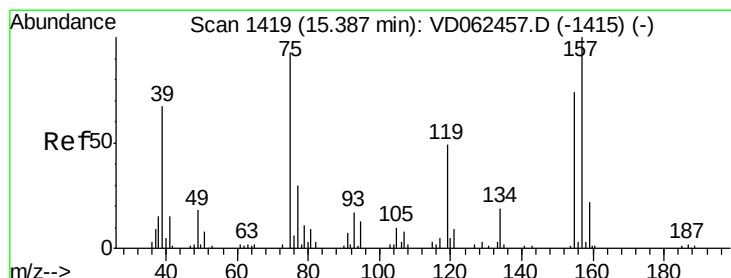
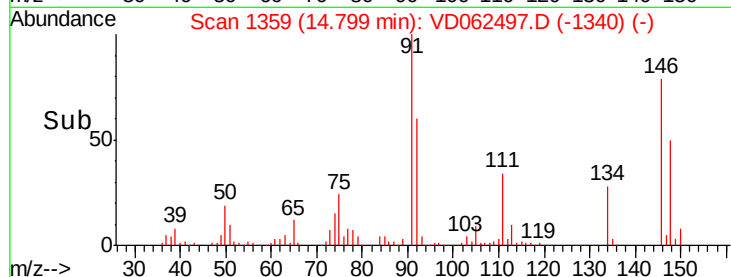
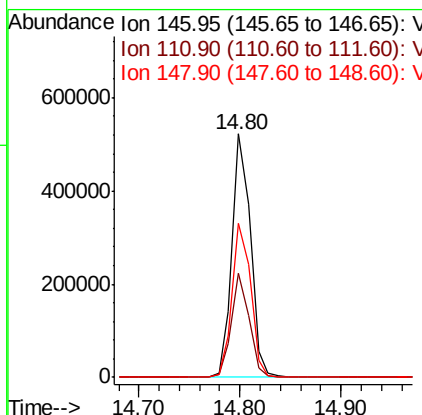
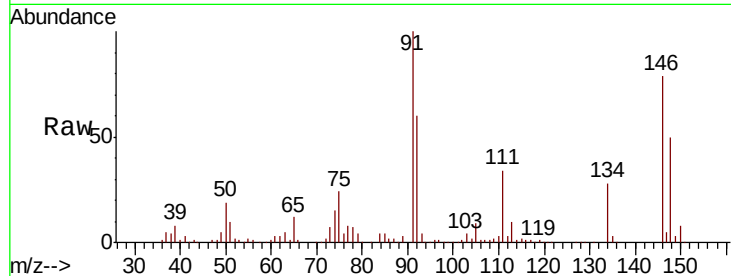




#91
 1,2-Dichlorobenzene
 Concen: 57.641 ug/l
 RT: 14.80 min Scan# 1359
 Delta R.T. -0.02 min
 Lab File: VD062497.D
 Acq: 22 May 2019 12:00

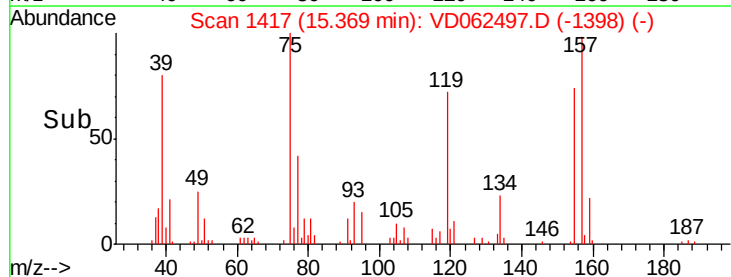
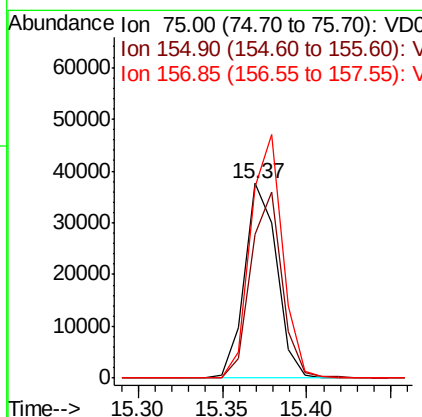
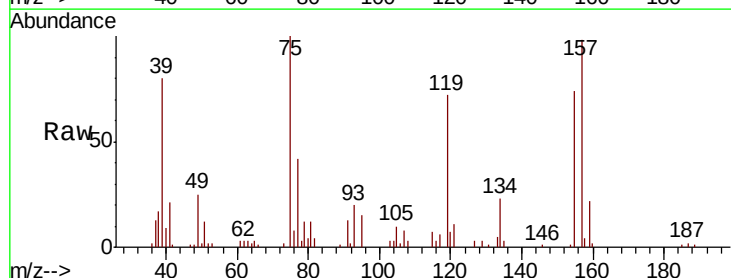
Instrument :
 MSVOA_D
 ClientSampleId :

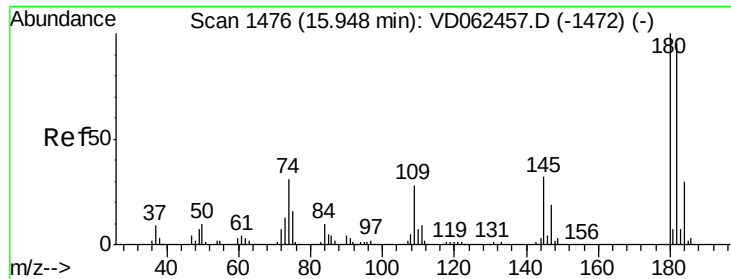
Tot Ion:146 Resp: 660707
 Ion Ratio Lower Upper
 146 100
 111 42.9 20.0 59.9
 148 63.0 32.3 96.8



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 53.670 ug/l
 RT: 15.37 min Scan# 1417
 Delta R.T. -0.02 min
 Lab File: VD062497.D
 Acq: 22 May 2019 12:00

Tgt Ion: 75 Resp: 49454
 Ion Ratio Lower Upper
 75 100
 155 74.1 55.3 165.8
 157 98.0 67.8 203.2

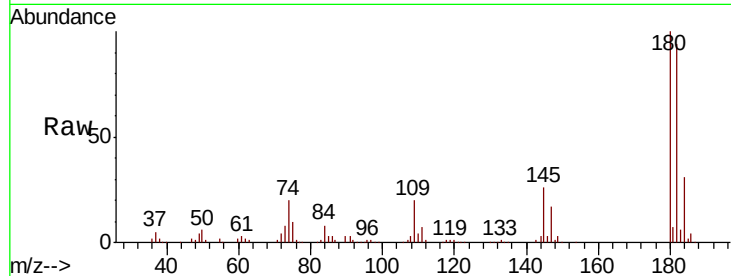




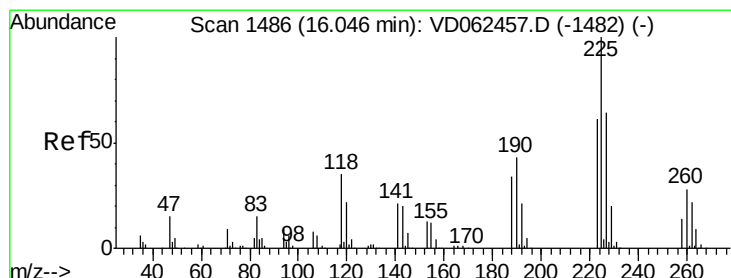
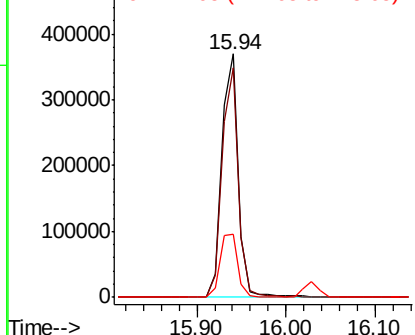
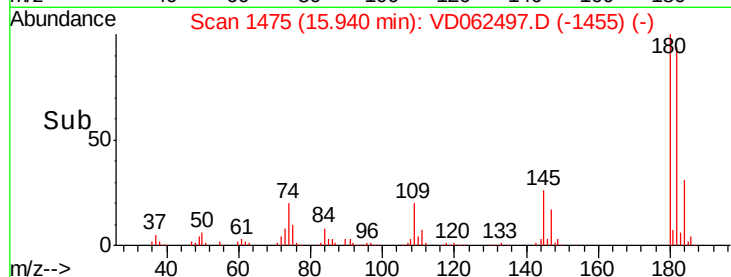
#93
 1,2,4-Trichlorobenzene
 Concen: 53.601 ug/l
 RT: 15.94 min Scan# 1475
 Delta R.T. -0.01 min
 Lab File: VD062497.D
 Acq: 22 May 2019 12:00

Instrument :
 MSVOA_D
 ClientSampled :

Tot Ion:180 Resp: 483775
 Ion Ratio Lower Upper
 180 100
 182 94.4 49.3 147.8
 145 25.7 16.2 48.6

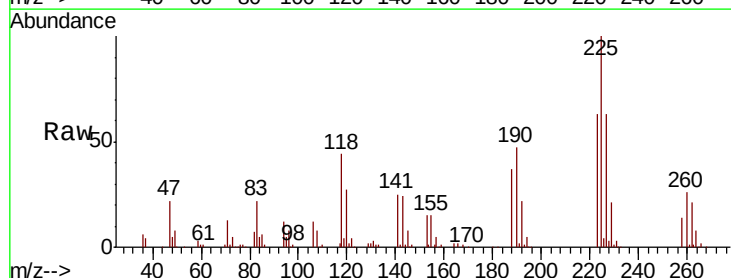


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

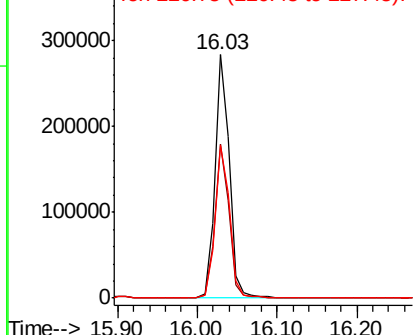
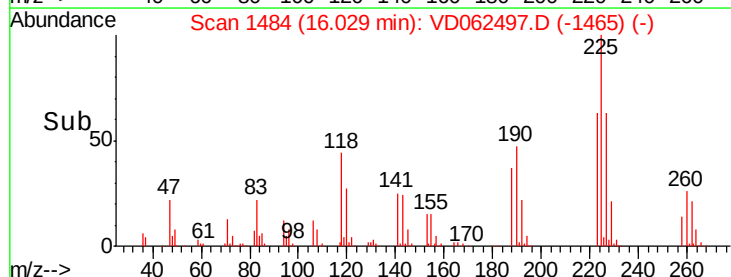


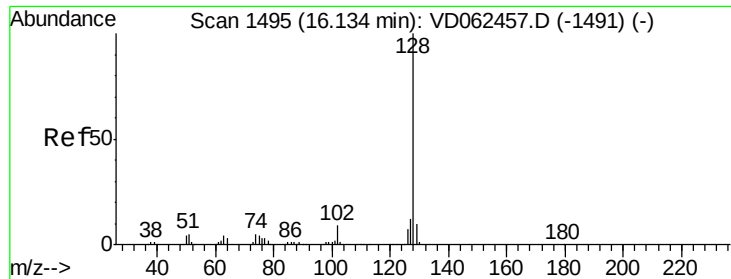
#94
 Hexachlorobutadiene
 Concen: 53.980 ug/l
 RT: 16.03 min Scan# 1484
 Delta R.T. -0.02 min
 Lab File: VD062497.D
 Acq: 22 May 2019 12:00

Tgt Ion:225 Resp: 359734
 Ion Ratio Lower Upper
 225 100
 223 63.3 30.6 92.0
 227 62.7 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

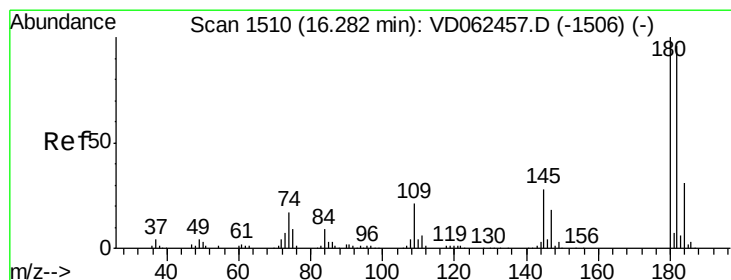
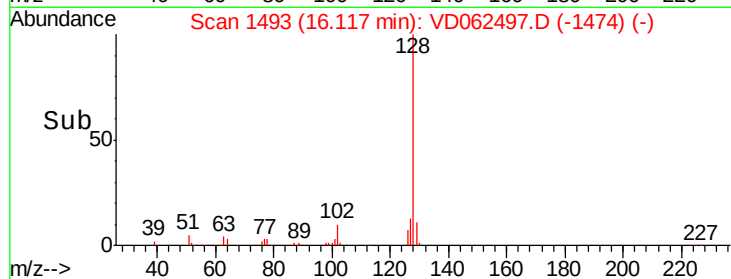
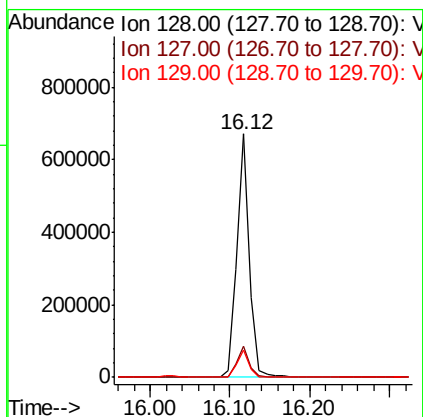
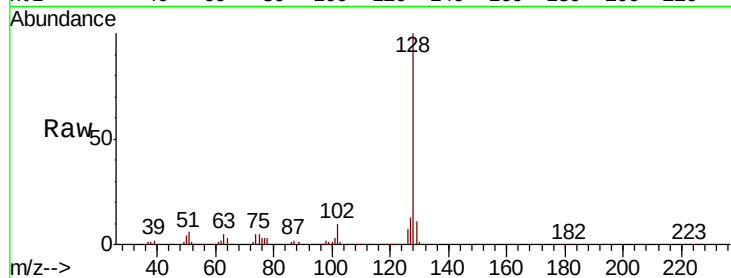




#95
Naphthalene
Concen: 60.132 ug/l
RT: 16.12 min Scan# 1493
Delta R.T. -0.02 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:128 Resp: 741578
Ion Ratio Lower Upper
128 100
127 12.6 9.8 14.8
129 11.0 8.8 13.2



#96
1,2,3-Trichlorobenzene
Concen: 57.937 ug/l
RT: 16.26 min Scan# 1508
Delta R.T. -0.02 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Tgt Ion:180 Resp: 428673
Ion Ratio Lower Upper
180 100
182 95.5 47.0 141.0
145 28.9 17.0 51.0

