

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052019\
 Data File : VD062467.D
 Acq On : 20 May 2019 20:25
 Operator : FY/SY
 Sample : VD0520SBS01
 Misc : 5.00µ/5mL/MSVOA D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0520SBS01

Quant Time: May 21 03:41:04 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	7.06	168	755588	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.23	114	1043919	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.38	117	840959	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	426858	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.47	65	434411	53.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.42%	
35) Dibromofluoromethane	6.94	113	481795	51.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.32%	
50) Toluene-d8	10.42	98	1093868	53.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.16%	
62) 4-Bromofluorobenzene	13.56	95	450671	49.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.98%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.57	85	175139	21.891	ug/l	100
3) Chloromethane	1.75	50	109178	20.858	ug/l	90
4) Vinyl Chloride	1.85	62	112586	20.440	ug/l	94
5) Bromomethane	2.15	94	43579	18.335	ug/l	92
6) Chloroethane	2.25	64	46766	17.551	ug/l	89
7) Trichlorofluoromethane	2.53	101	251709	19.778	ug/l	99
8) Diethyl Ether	2.88	74	33908	19.751	ug/l	60
9) 1,1,2-Trichlorotrifluoroet	3.15	101	159036	21.005	ug/l	95
10) Methyl Iodide	3.31	142	188960	17.899	ug/l #	87
11) Tert butyl alcohol	4.09	59	39274	105.198	ug/l	96
12) 1,1-Dichloroethene	3.13	96	111500	19.926	ug/l #	78
13) Acrolein	3.04	56	33150	106.924	ug/l	99
14) Allyl chloride	3.62	41	175437	21.263	ug/l #	80
15) Acrylonitrile	4.21	53	96937	113.314	ug/l	89
16) Acetone	3.24	43	149221	102.956	ug/l #	86
17) Carbon Disulfide	3.38	76	373968	22.067	ug/l	99
18) Methyl Acetate	3.65	43	57391	22.947	ug/l	93
19) Methyl tert-butyl Ether	4.25	73	264305	20.450	ug/l	92
20) Methylene Chloride	3.82	84	133300	17.489	ug/l	90
21) trans-1,2-Dichloroethene	4.22	96	138837	21.194	ug/l	92
22) Diisopropyl ether	5.14	45	392891	22.372	ug/l	95
23) Vinyl Acetate	5.07	43	1102823	103.925	ug/l	96
24) 1,1-Dichloroethane	5.00	63	242741	21.462	ug/l	97
25) 2-Butanone	6.08	43	160383	105.800	ug/l	93
26) 2,2-Dichloropropane	6.03	77	242500	19.890	ug/l	93
27) cis-1,2-Dichloroethene	6.05	96	152768	21.627	ug/l	96
28) Bromochloromethane	6.45	49	87206	21.483	ug/l #	79
29) Tetrahydrofuran	6.48	42	86374	119.305	ug/l	93
30) Chloroform	6.67	83	304347	21.107	ug/l	99
31) Cyclohexane	6.97	56	162423	21.269	ug/l	96
32) 1,1,1-Trichloroethane	6.88	97	289979	19.919	ug/l	98
36) 1,1-Dichloropropene	7.15	75	204386	20.478	ug/l	94
37) Ethyl Acetate	6.19	43	85390	22.023	ug/l #	88
38) Carbon Tetrachloride	7.12	117	303082	20.433	ug/l	99

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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.88	83	174604	21.210	ug/l	95
40) Benzene	7.47	78	419817	21.444	ug/l	99
41) Methacrylonitrile	6.47	41	112187	23.038	ug/l #	83
42) 1,2-Dichloroethane	7.59	62	213633	20.608	ug/l	91
43) Isopropyl Acetate	9.25	43	117221	22.790	ug/l	94
44) Trichloroethene	8.55	130	166048	21.184	ug/l	89
45) 1,2-Dichloropropane	8.95	63	105575	22.129	ug/l	94
46) Dibromomethane	9.07	93	90473	20.920	ug/l	93
47) Bromodichloromethane	9.39	83	225292	20.478	ug/l	96
48) Methyl methacrylate	9.13	41	73047	21.103	ug/l	88
49) 1,4-Dioxane	9.10	88	15132	487.380	ug/l #	86
51) 4-Methyl-2-Pentanone	10.31	43	382336	112.518	ug/l	95
52) Toluene	10.52	92	271391	20.250	ug/l	95
53) t-1,3-Dichloropropene	10.92	75	181070	19.769	ug/l	96
54) cis-1,3-Dichloropropene	10.06	75	195510	20.457	ug/l	92
55) 1,1,2-Trichloroethane	11.20	97	105502	23.227	ug/l	97
56) Ethyl methacrylate	11.05	69	99443	20.479	ug/l #	82
57) 1,3-Dichloropropane	11.42	76	152426	21.881	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.87	63	277715	111.380	ug/l	98
59) 2-Hexanone	11.54	43	274606	111.195	ug/l	87
60) Dibromochloromethane	11.69	129	182503	20.919	ug/l	96
61) 1,2-Dibromoethane	11.82	107	125846	22.482	ug/l	95
64) Tetrachloroethene	11.27	164	150254	21.339	ug/l	92
65) Chlorobenzene	12.41	112	334940	20.711	ug/l	99
66) 1,1,1,2-Tetrachloroethane	12.52	131	150653	20.181	ug/l	95
67) Ethyl Benzene	12.54	91	569398	20.441	ug/l	94
68) m/p-Xylenes	12.67	106	398279	39.832	ug/l	86
69) o-Xylene	13.06	106	197819	20.968	ug/l	90
70) Styrene	13.08	104	334317	20.831	ug/l	95
71) Bromoform	13.25	173	109418	22.071	ug/l #	99
73) Isopropylbenzene	13.41	105	605252	22.495	ug/l	97
74) N-amyl acetate	13.28	43	162928	24.517	ug/l	97
75) 1,1,2,2-Tetrachloroethane	13.71	83	108908	22.436	ug/l	98
76) 1,2,3-Trichloropropane	13.74	75	115880	23.047	ug/l	99
77) Bromobenzene	13.68	156	168452	22.070	ug/l	98
78) n-propylbenzene	13.78	91	703758	22.580	ug/l	94
79) 2-Chlorotoluene	13.85	91	418940	22.150	ug/l	91
80) 1,3,5-Trimethylbenzene	13.94	105	485627	20.845	ug/l	96
81) trans-1,4-Dichloro-2-buten	13.48	75	30380	21.425	ug/l #	80
82) 4-Chlorotoluene	13.95	91	472177	21.677	ug/l	90
83) tert-Butylbenzene	14.20	119	572422	22.151	ug/l	98
84) 1,2,4-Trimethylbenzene	14.24	105	478312	20.037	ug/l	88
85) sec-Butylbenzene	14.38	105	601206	22.312	ug/l	99
86) p-Isopropyltoluene	14.50	119	533695	21.856	ug/l	92
87) 1,3-Dichlorobenzene	14.47	146	306738	22.757	ug/l	96
88) 1,4-Dichlorobenzene	14.54	146	293110	22.535	ug/l	97
89) n-Butylbenzene	14.80	91	491432	20.853	ug/l	92
90) Hexachloroethane	15.02	117	142631	21.135	ug/l	77
91) 1,2-Dichlorobenzene	14.81	146	250355	21.843	ug/l	94
92) 1,2-Dibromo-3-Chloropropan	15.39	75	18540	20.122	ug/l	97

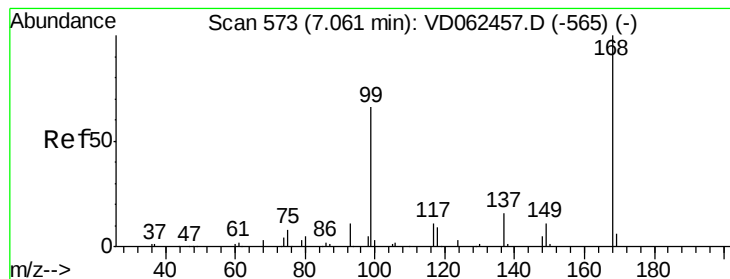
Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052019\
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.95	180	198752	22.023	ug/l	97
94) Hexachlorobutadiene	16.04	225	143523	21.538	ug/l	99
95) Naphthalene	16.13	128	282408	22.901	ug/l	98
96) 1,2,3-Trichlorobenzene	16.28	180	153968	20.811	ug/l	94

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. -0.01 min

Lab File: VD062467.D

Acq: 20 May 2019 20:25

Instrument :

MSVOA_D

ClientSampleId :

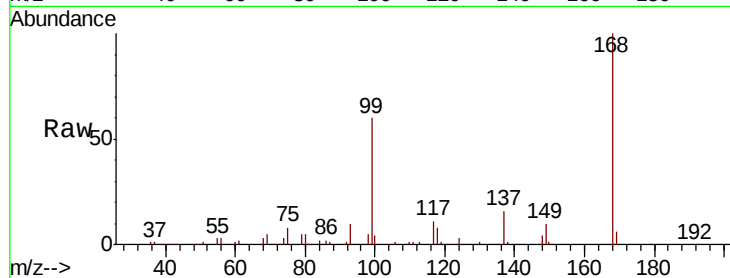
VD0520SBS01

Tot Ion:168 Resp: 755588

Ion Ratio Lower Upper

168 100

99 60.3 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): V

7.06

250000

200000

150000

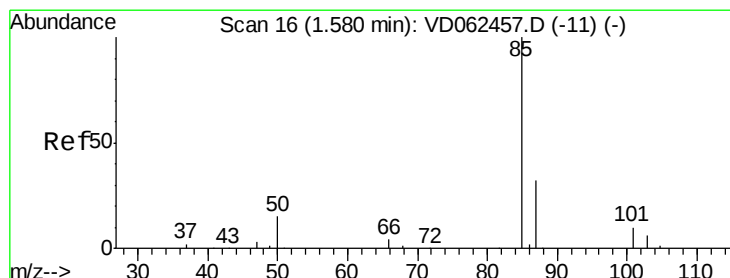
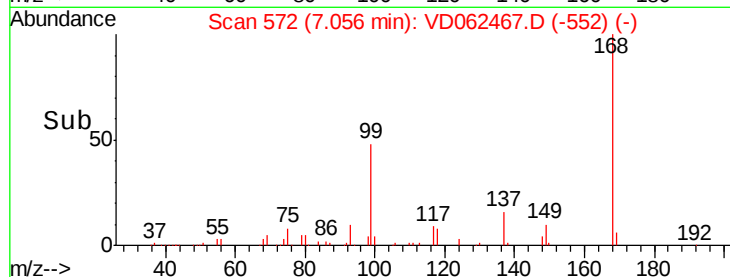
100000

50000

0

6.90 7.00 7.10 7.20 7.30

Time-->



#2

Dichlorodifluoromethane

Concen: 21.891 ug/l

RT: 1.57 min Scan# 15

Delta R.T. -0.00 min

Lab File: VD062467.D

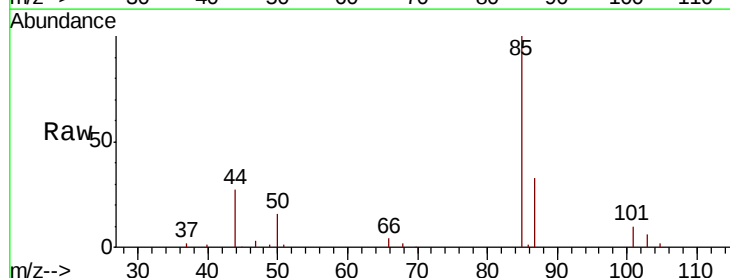
Acq: 20 May 2019 20:25

Tgt Ion: 85 Resp: 175139

Ion Ratio Lower Upper

85 100

87 32.6 16.2 48.6



Abundance Ion 84.95 (84.65 to 85.65): V

Ion 86.90 (86.60 to 87.60): V

1.57

100000

80000

60000

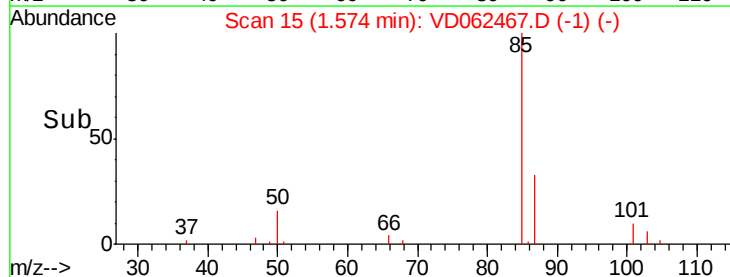
40000

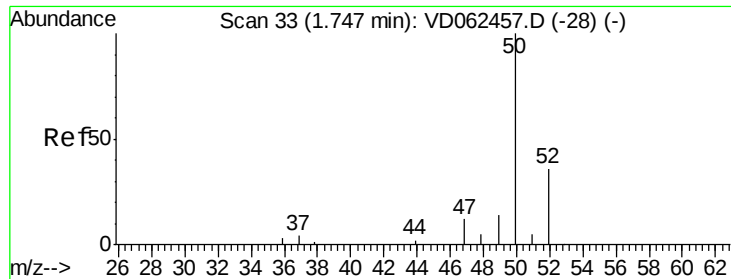
20000

0

1.50 1.60 1.70 1.80

Time-->

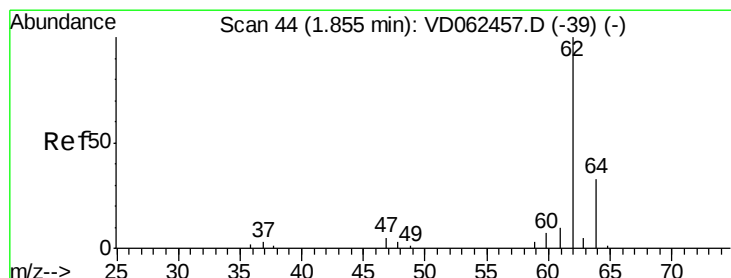
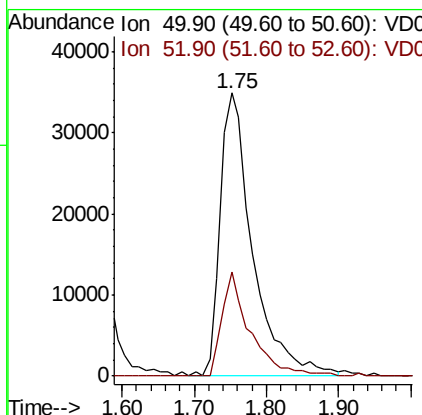
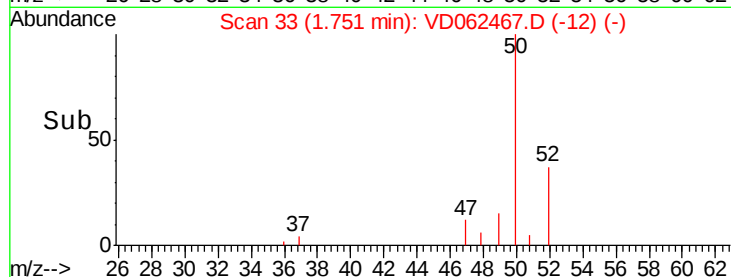
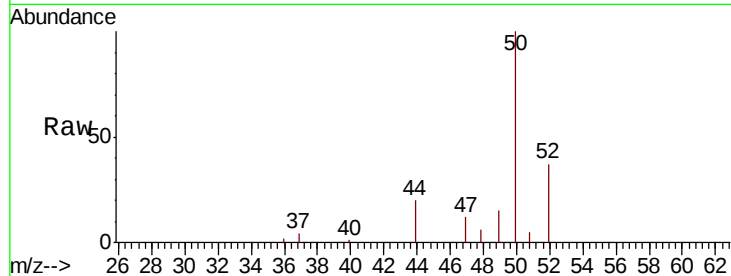




#3
 Chloromethane
 Concen: 20.858 ug/l
 RT: 1.75 min Scan# 33
 Delta R.T. 0.00 min
 Lab File: VD062467.D
 Acq: 20 May 2019 20:25

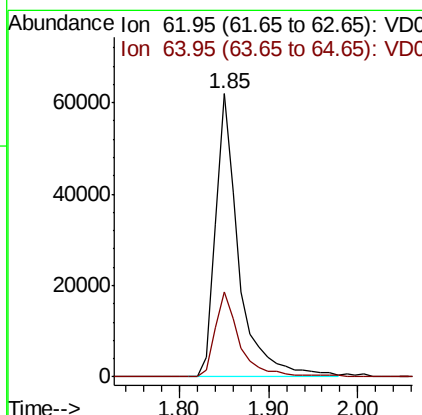
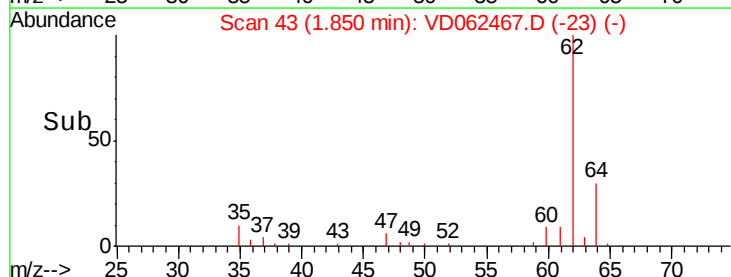
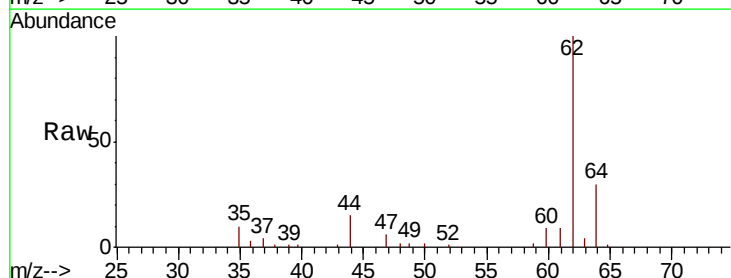
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0520SBS01

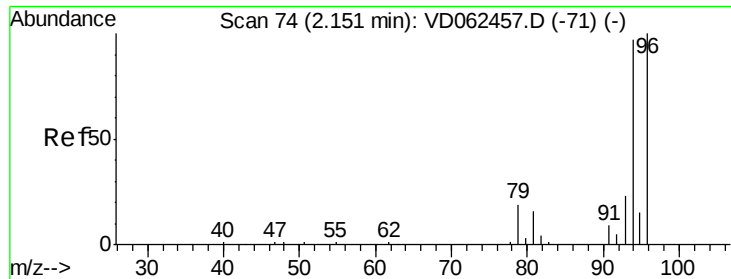
Tot Ion: 50 Resp: 109178
 Ion Ratio Lower Upper
 50 100
 52 36.8 25.2 37.8



#4
 Vinyl Chloride
 Concen: 20.440 ug/l
 RT: 1.85 min Scan# 43
 Delta R.T. -0.01 min
 Lab File: VD062467.D
 Acq: 20 May 2019 20:25

Tgt Ion: 62 Resp: 112586
 Ion Ratio Lower Upper
 62 100
 64 29.8 26.5 39.7





#5

Bromomethane

Concen: 18.335 ug/l

RT: 2.15 min Scan# 73

Delta R.T. -0.01 min

Lab File: VD062467.D

Acq: 20 May 2019 20:25

Instrument :

MSVOA_D

ClientSampleId :

VD0520SBS01

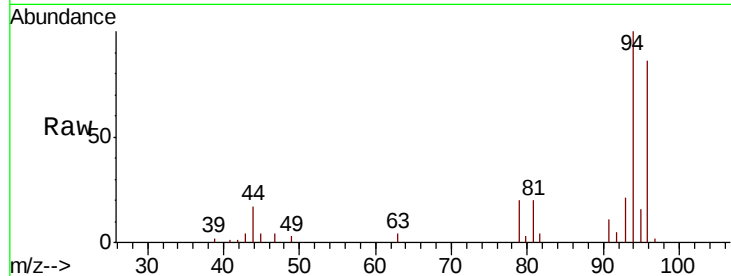
Tot Ion: 94 Resp: 43579

Ion Ratio Lower Upper

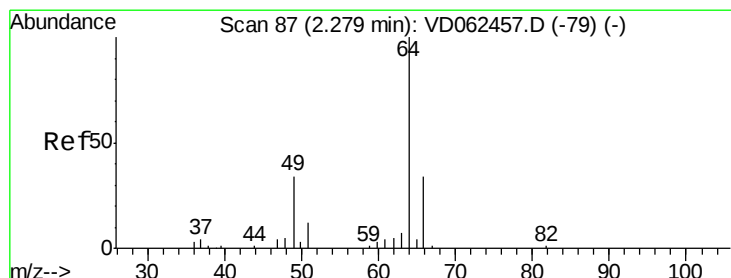
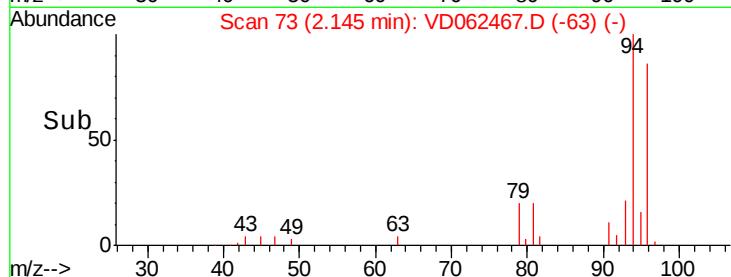
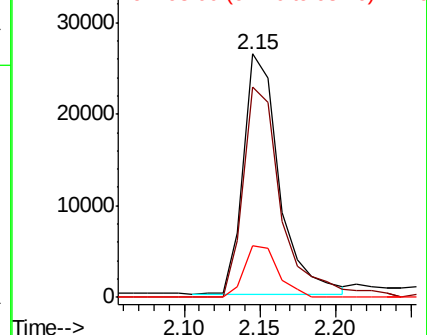
94 100

96 86.5 76.6 115.0

93 21.2 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: 17.551 ug/l

RT: 2.25 min Scan# 84

Delta R.T. -0.03 min

Lab File: VD062467.D

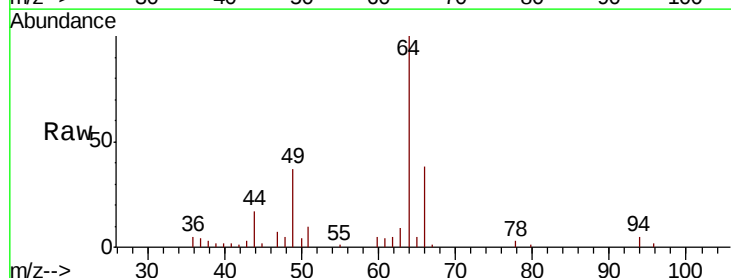
Acq: 20 May 2019 20:25

Tgt Ion: 64 Resp: 46766

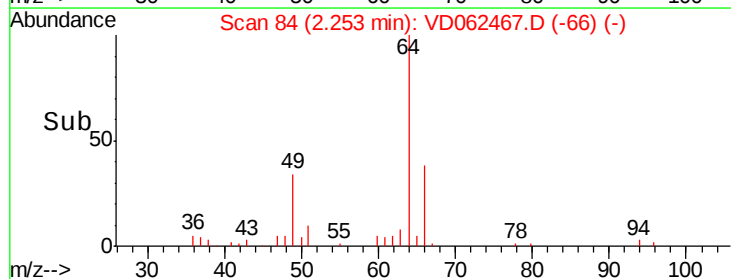
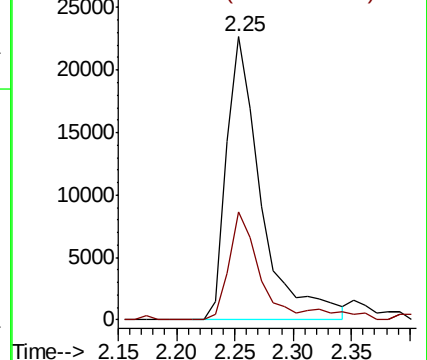
Ion Ratio Lower Upper

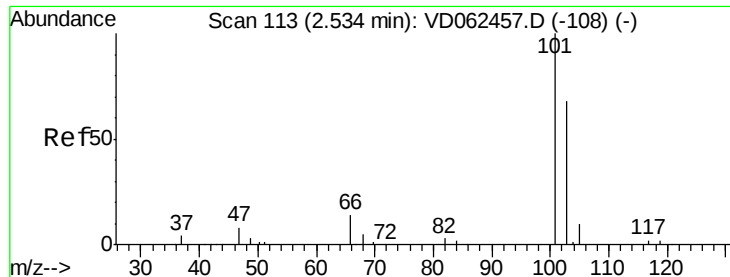
64 100

66 38.2 25.6 38.4



Abundance Ion 63.95 (63.65 to 64.65): VDC
Ion 65.90 (65.60 to 66.60): VDC



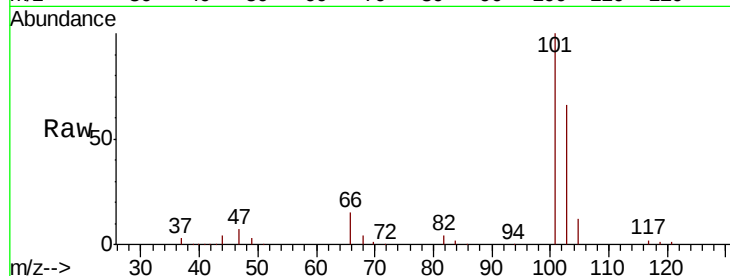


#7

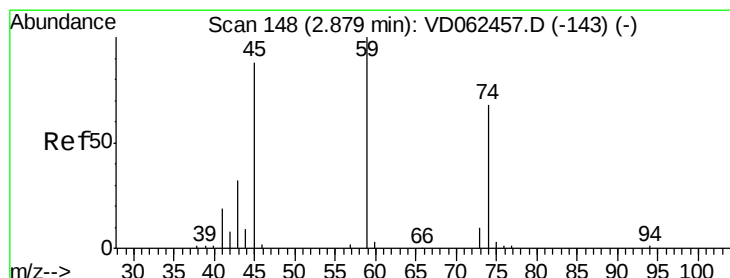
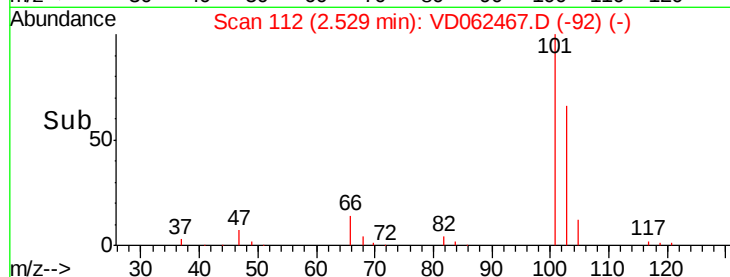
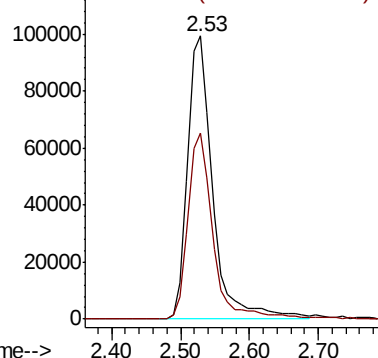
Trichlorofluoromethane
 Concen: 19.778 ug/l
 RT: 2.53 min Scan# 112
 Delta R.T. -0.01 min
 Lab File: VD062467.D
 Acq: 20 May 2019 20:25

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0520SBS01

Tot Ion:101 Resp: 251709
 Ion Ratio Lower Upper
 101 100
 103 65.9 53.6 80.4



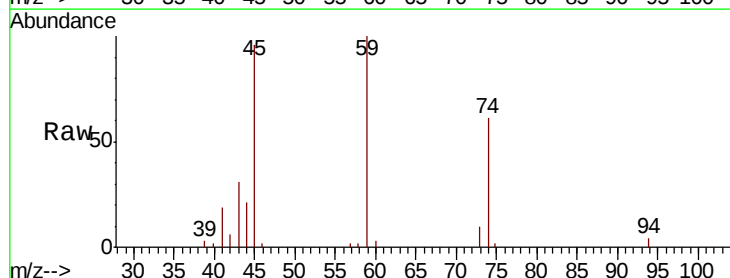
Abundance Ion 100.85 (100.55 to 101.55): V
 Ion 102.85 (102.55 to 103.55): V



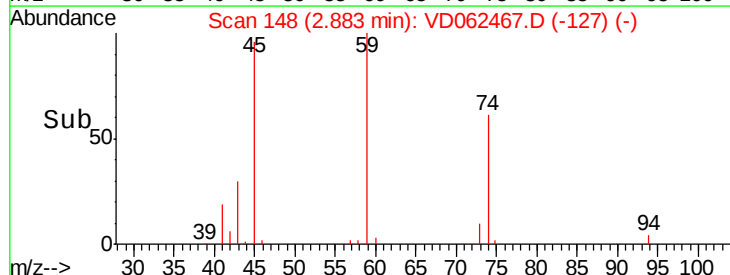
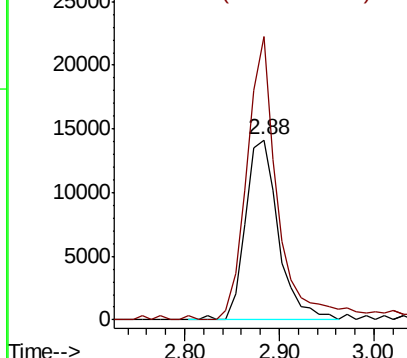
#8

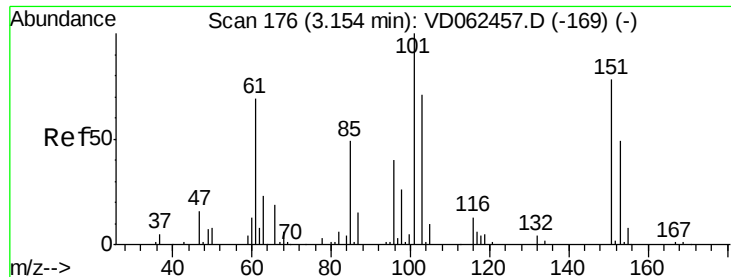
Diethyl Ether
 Concen: 19.751 ug/l
 RT: 2.88 min Scan# 148
 Delta R.T. 0.00 min
 Lab File: VD062467.D
 Acq: 20 May 2019 20:25

Tgt Ion: 74 Resp: 33908
 Ion Ratio Lower Upper
 74 100
 45 157.2 56.9 170.7



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





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.005 ug/l

RT: 3.15 min Scan# 175

Delta R.T. -0.01 min

Lab File: VD062467.D

Acq: 20 May 2019 20:25

Instrument :

MSVOA_D

ClientSampleId :

VD0520SBS01

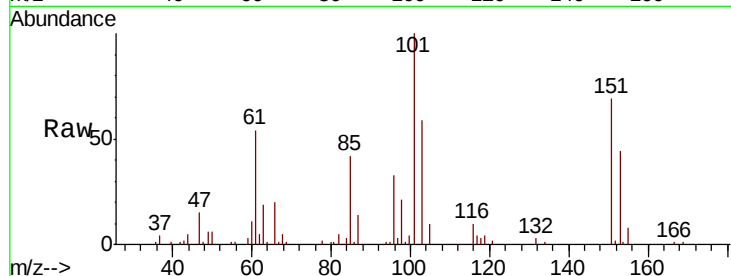
Tot Ion:101 Resp: 159036

Ion Ratio Lower Upper

101 100

85 41.6 32.4 48.6

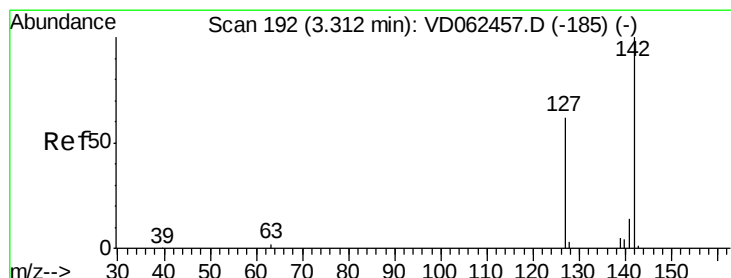
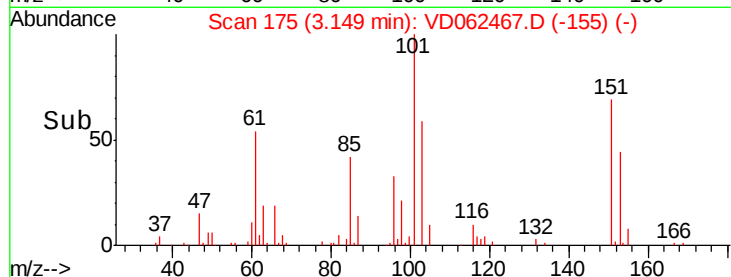
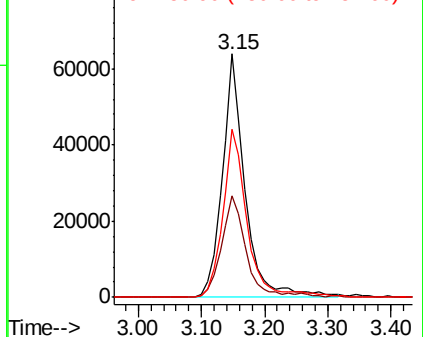
151 68.8 59.4 89.0



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: 17.899 ug/l

RT: 3.31 min Scan# 191

Delta R.T. -0.01 min

Lab File: VD062467.D

Acq: 20 May 2019 20:25

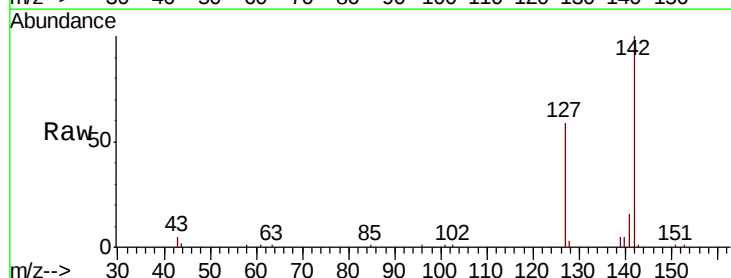
Tgt Ion:142 Resp: 188960

Ion Ratio Lower Upper

142 100

127 59.3 38.8 58.2#

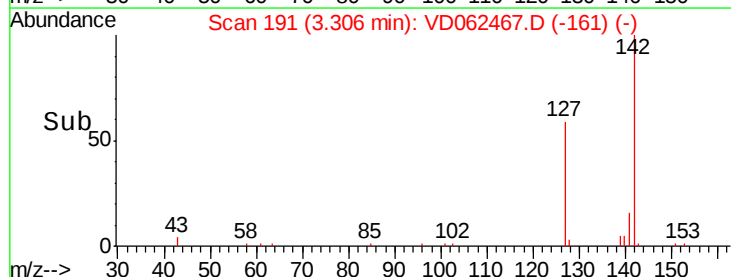
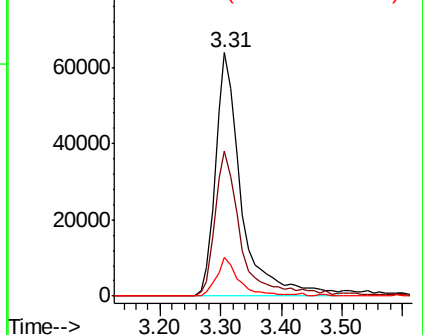
141 15.8 11.4 17.0

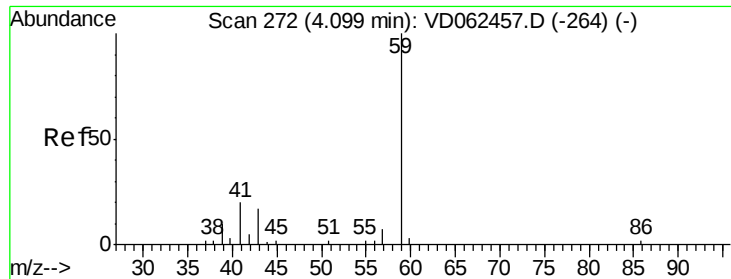


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



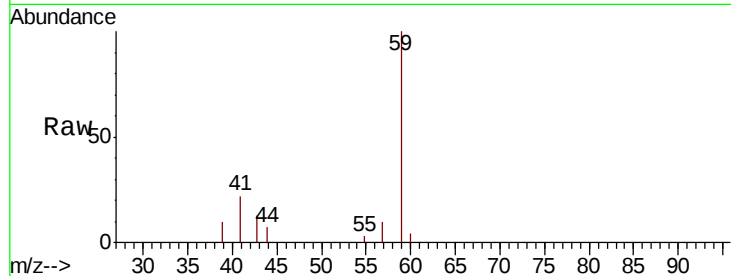


#11

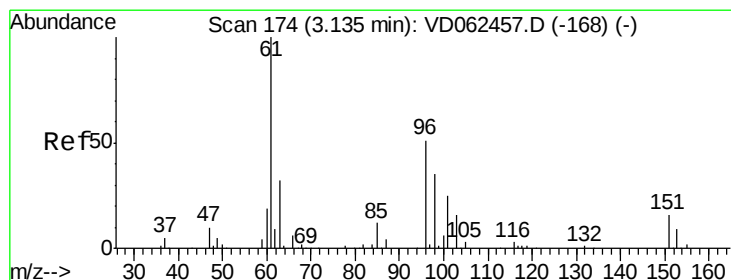
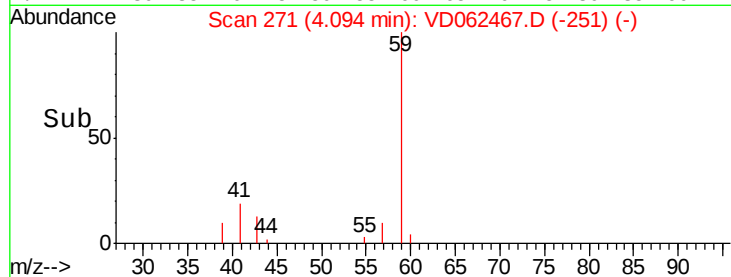
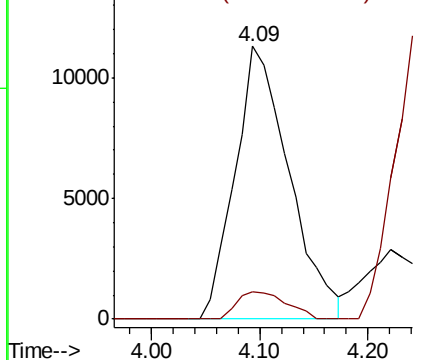
Tert butyl alcohol
 Concen: 105.198 ug/l
 RT: 4.09 min Scan# 271
 Delta R.T. -0.01 min
 Lab File: VD062467.D
 Acq: 20 May 2019 20:25

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0520SBS01

Tot Ion: 59 Resp: 39274
 Ion Ratio Lower Upper
 59 100
 57 10.1 6.9 10.3



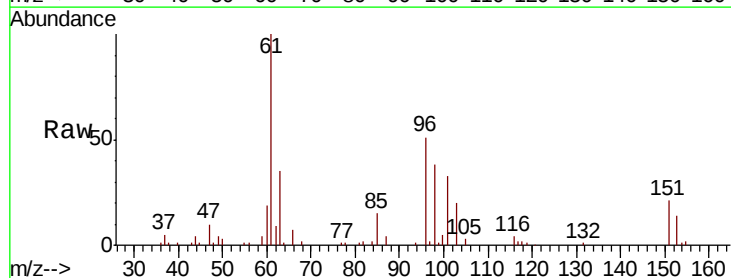
Abundance Ion 58.95 (58.65 to 59.65): VDC
 Ion 56.95 (56.65 to 57.65): VDC



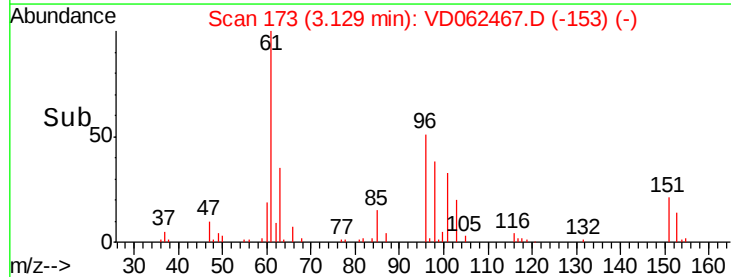
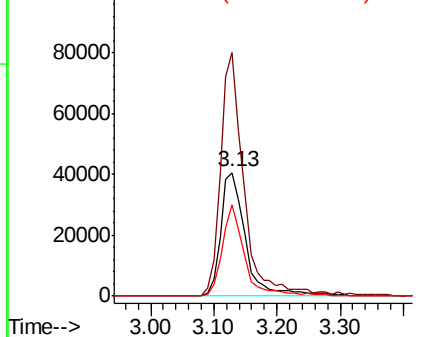
#12

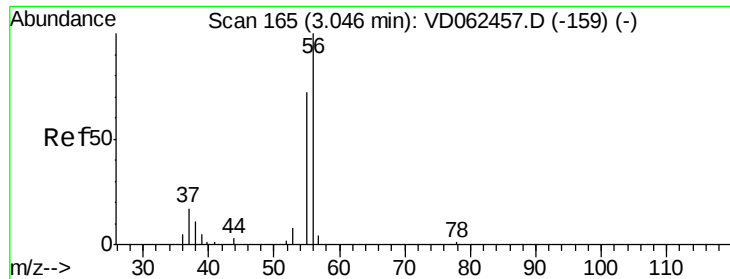
1,1-Dichloroethene
 Concen: 19.926 ug/l
 RT: 3.13 min Scan# 173
 Delta R.T. -0.01 min
 Lab File: VD062467.D
 Acq: 20 May 2019 20:25

Tgt Ion: 96 Resp: 111500
 Ion Ratio Lower Upper
 96 100
 61 197.1 129.8 194.8#
 98 74.1 51.2 76.8



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

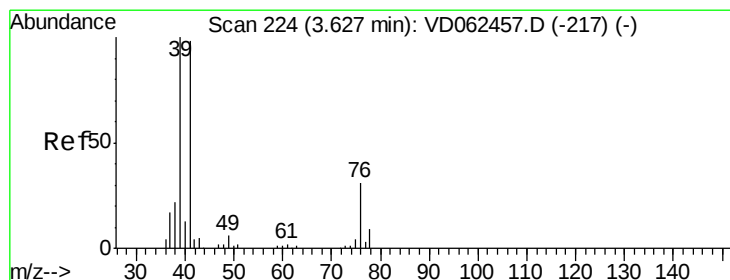
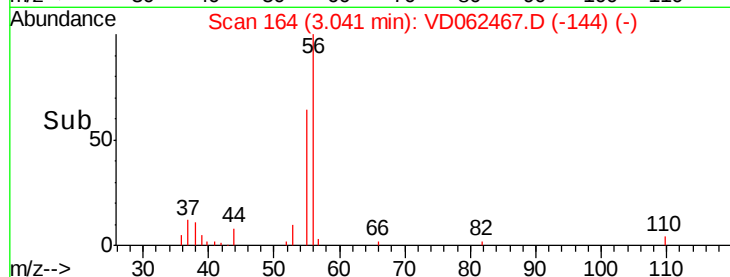
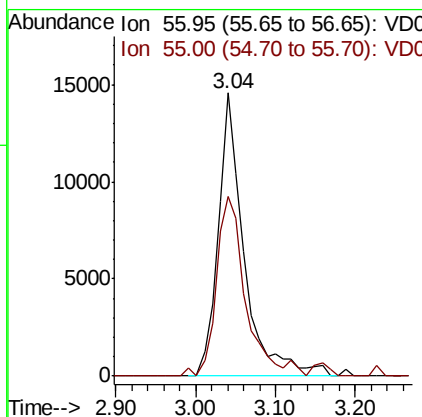
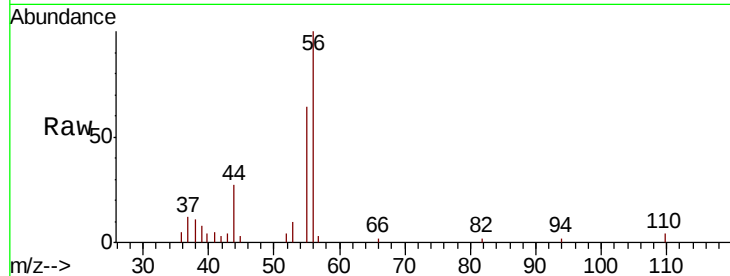




#13
 Acrolein
 Concen: 106.924 ug/l
 RT: 3.04 min Scan# 164
 Delta R.T. -0.01 min
 Lab File: VD062467.D
 Acq: 20 May 2019 20:25

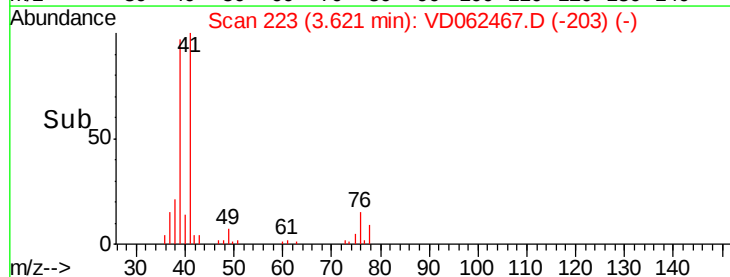
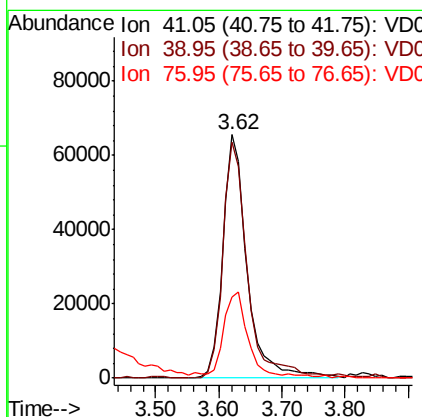
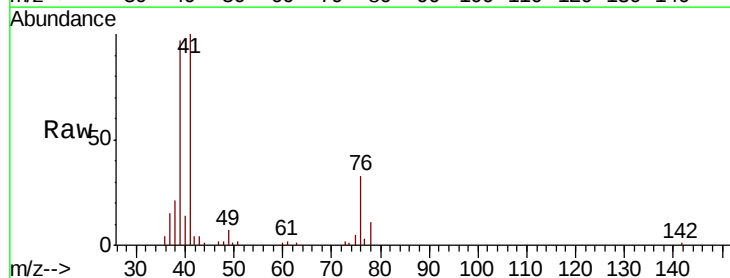
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0520SBS01

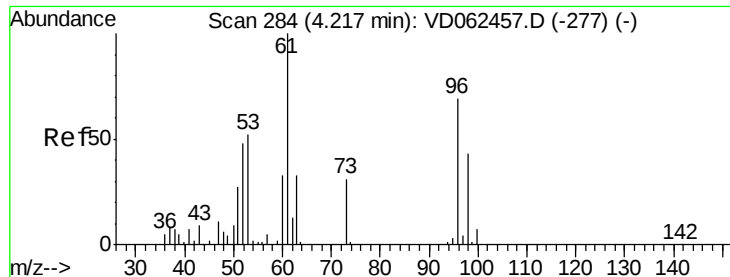
Tot Ion: 56 Resp: 33150
 Ion Ratio Lower Upper
 56 100
 55 63.6 51.4 77.2



#14
 Allyl chloride
 Concen: 21.263 ug/l
 RT: 3.62 min Scan# 223
 Delta R.T. -0.01 min
 Lab File: VD062467.D
 Acq: 20 May 2019 20:25

Tgt Ion: 41 Resp: 175437
 Ion Ratio Lower Upper
 41 100
 39 97.1 60.5 90.7#
 76 33.3 31.8 47.8





#15

Acrylonitrile

Concen: 113.314 ug/l

RT: 4.21 min Scan# 283

Delta R.T. -0.01 min

Lab File: VD062467.D

Acq: 20 May 2019 20:25

Instrument :

MSVOA_D

ClientSampleId :

VD0520SBS01

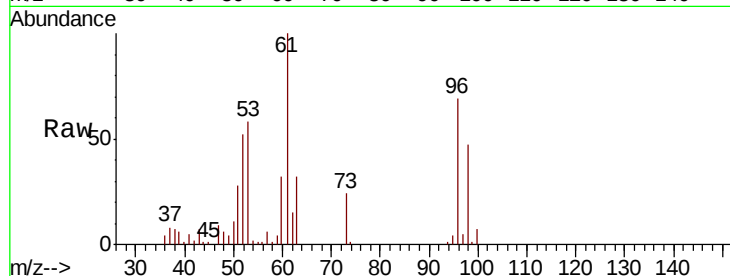
Tot Ion: 53 Resp: 96937

Ion Ratio Lower Upper

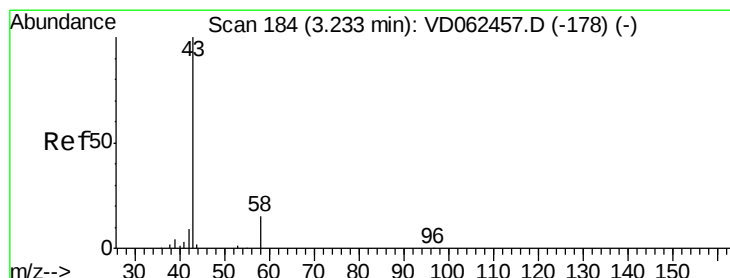
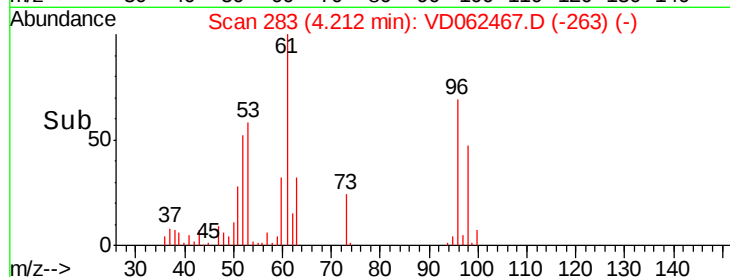
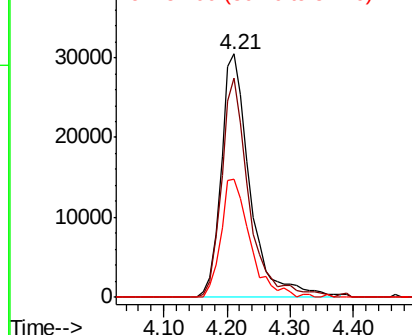
53 100

52 89.9 65.0 97.4

51 48.6 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: 102.956 ug/l

RT: 3.24 min Scan# 184

Delta R.T. 0.00 min

Lab File: VD062467.D

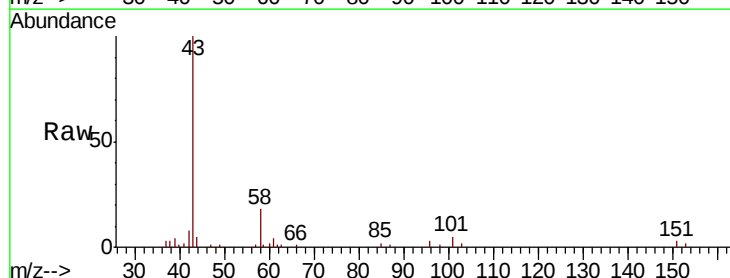
Acq: 20 May 2019 20:25

Tgt Ion: 43 Resp: 149221

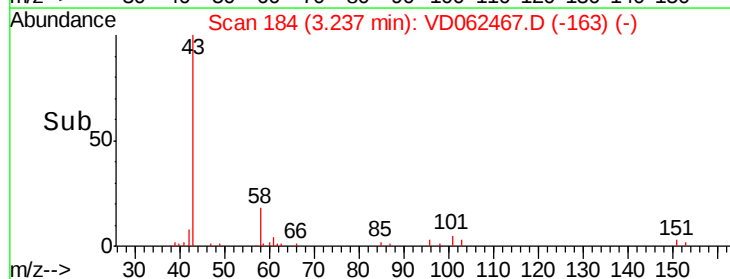
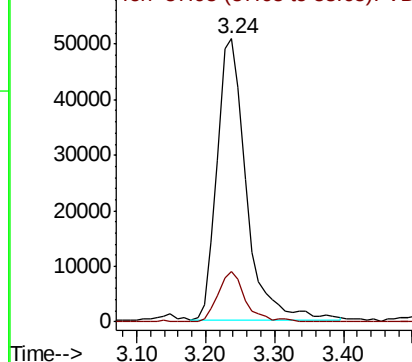
Ion Ratio Lower Upper

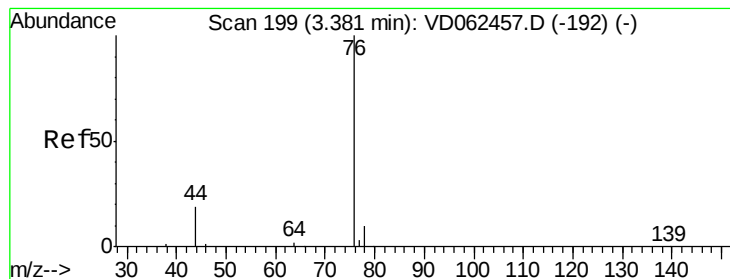
43 100

58 17.9 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: 22.067 ug/l

RT: 3.38 min Scan# 198

Delta R.T. -0.01 min

Lab File: VD062467.D

Acq: 20 May 2019 20:25

Instrument :

MSVOA_D

ClientSampleId :

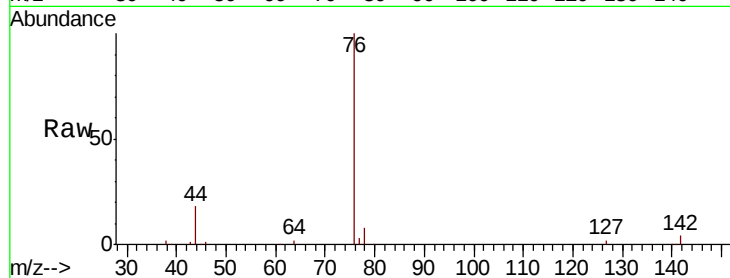
VD0520SBS01

Tot Ion: 76 Resp: 373968

Ion Ratio Lower Upper

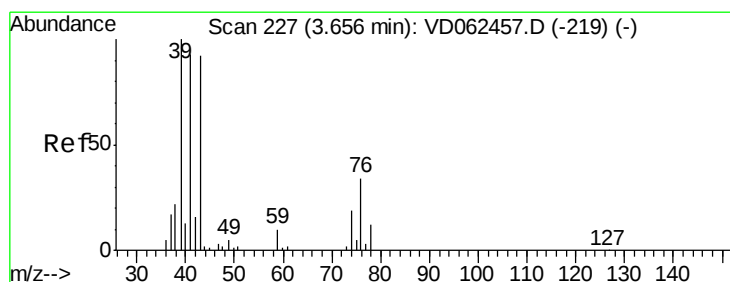
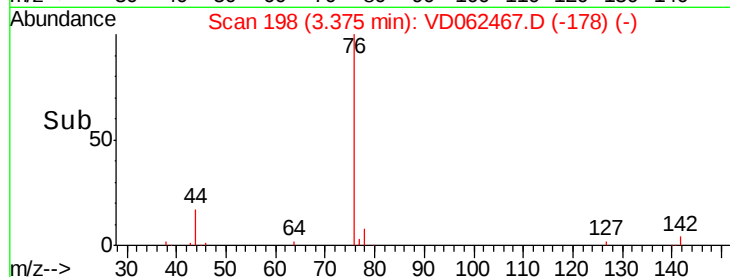
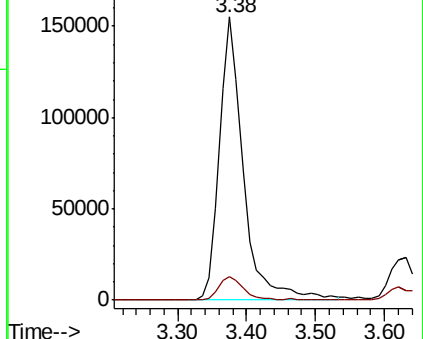
76 100

78 8.5 7.2 10.8



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 22.947 ug/l

RT: 3.65 min Scan# 226

Delta R.T. -0.01 min

Lab File: VD062467.D

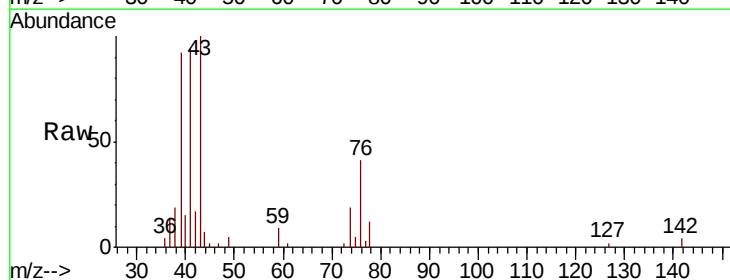
Acq: 20 May 2019 20:25

Tgt Ion: 43 Resp: 57391

Ion Ratio Lower Upper

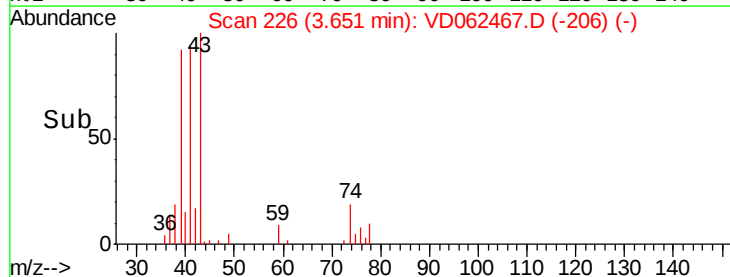
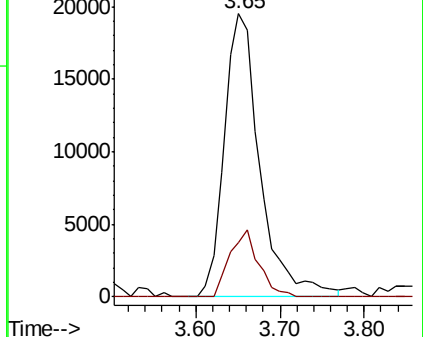
43 100

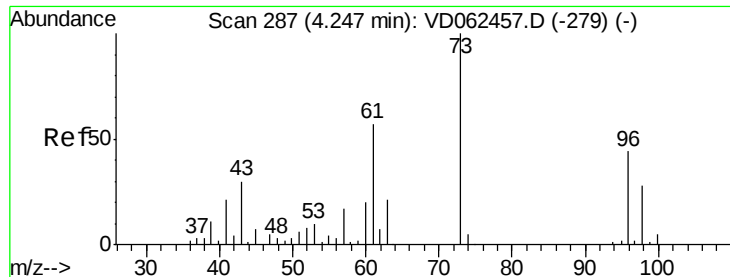
74 19.0 18.0 27.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

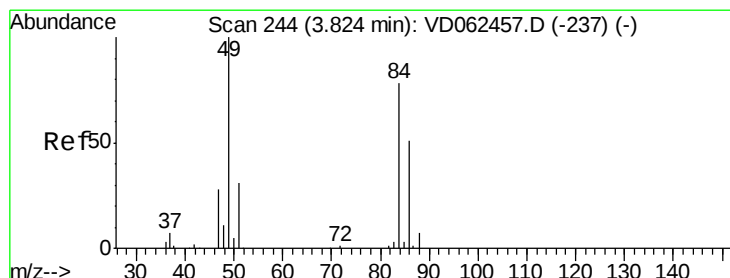
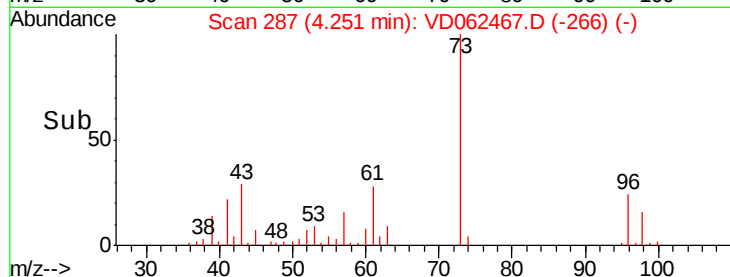
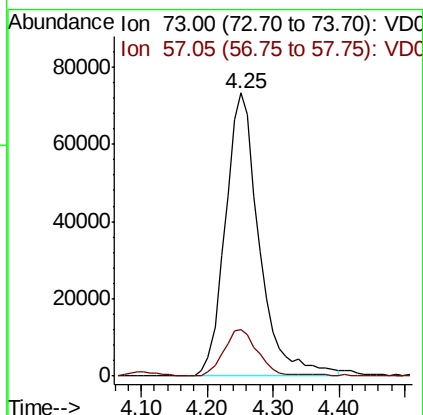
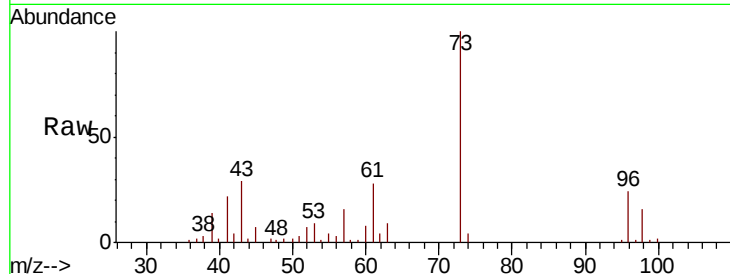




#19
Methyl tert-butyl Ether
Concen: 20.450 ug/l
RT: 4.25 min Scan# 287
Delta R.T. 0.00 min
Lab File: VD062467.D
Acq: 20 May 2019 20:25

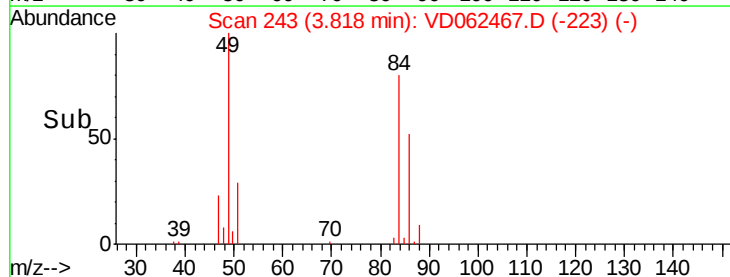
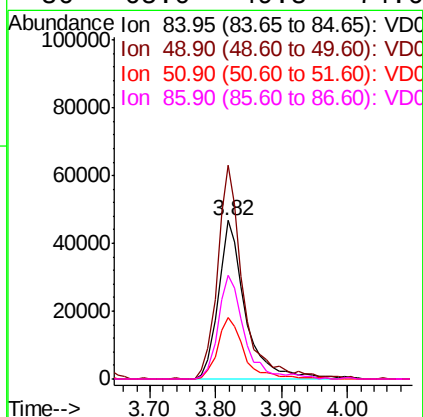
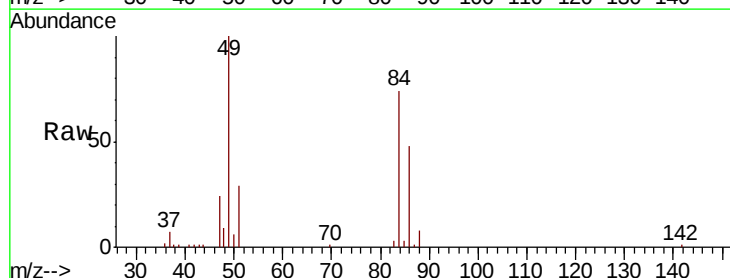
Instrument :
MSVOA_D
ClientSampleId :
VD0520SBS01

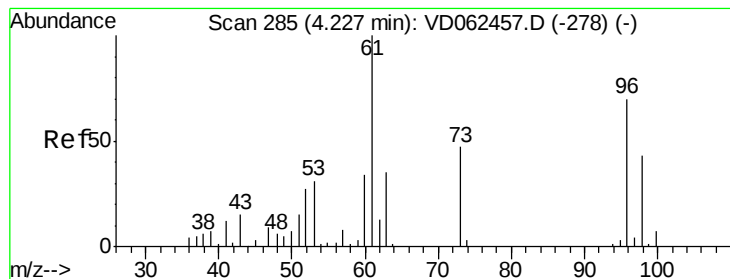
Tot Ion: 73 Resp: 264305
Ion Ratio Lower Upper
73 100
57 16.5 16.3 24.5



#20
Methylene Chloride
Concen: 17.489 ug/l
RT: 3.82 min Scan# 243
Delta R.T. -0.00 min
Lab File: VD062467.D
Acq: 20 May 2019 20:25

Tgt Ion: 84 Resp: 133300
Ion Ratio Lower Upper
84 100
49 134.6 94.0 141.0
51 39.1 29.0 43.4
86 65.0 49.8 74.6





#21

trans-1,2-Dichloroethene

Concen: 21.194 ug/l

RT: 4.22 min Scan# 284

Delta R.T. -0.01 min

Lab File: VD062467.D

Acq: 20 May 2019 20:25

Instrument :

MSVOA_D

ClientSampleId :

VD0520SBS01

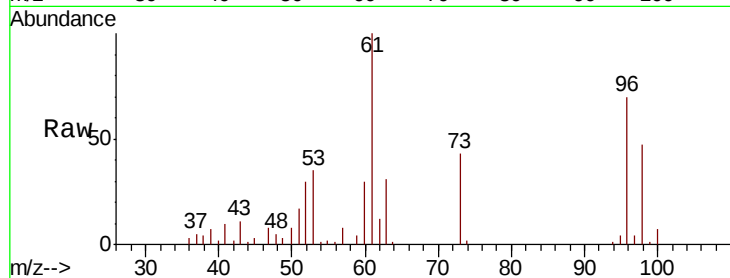
Tot Ion: 96 Resp: 138837

Ion Ratio Lower Upper

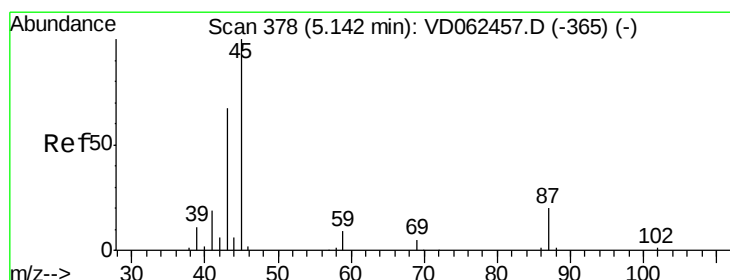
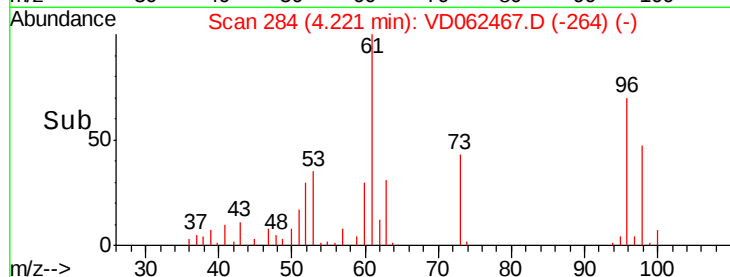
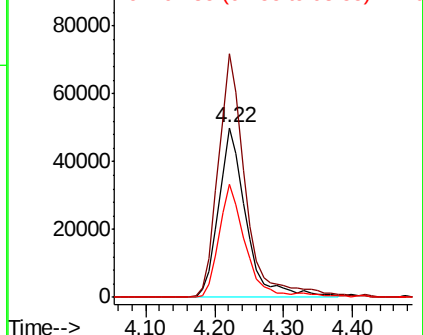
96 100

61 143.3 104.4 156.6

98 66.9 51.8 77.8



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



#22

Diisopropyl ether

Concen: 22.372 ug/l

RT: 5.14 min Scan# 377

Delta R.T. -0.01 min

Lab File: VD062467.D

Acq: 20 May 2019 20:25

Tgt Ion: 45 Resp: 392891

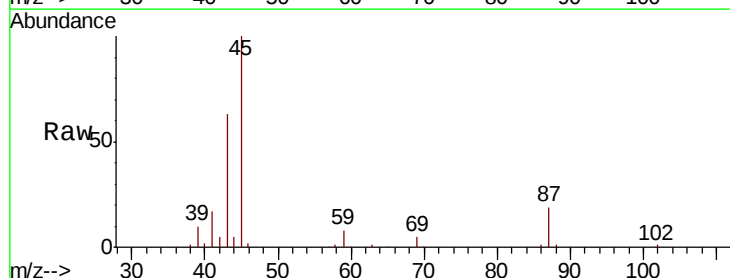
Ion Ratio Lower Upper

45 100

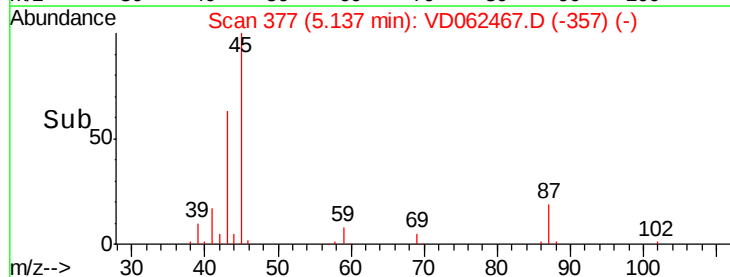
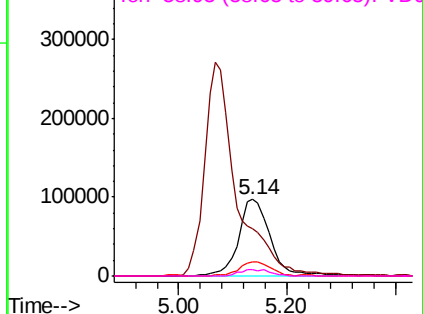
43 62.6 46.2 69.2

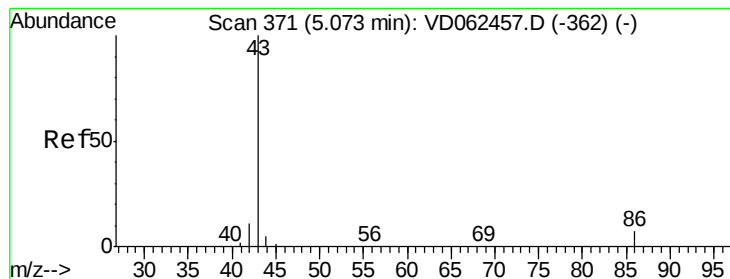
87 18.7 15.9 23.9

59 8.4 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: 103.925 ug/l

RT: 5.07 min Scan# 370

Delta R.T. -0.01 min

Lab File: VD062467.D

Acq: 20 May 2019 20:25

Instrument :

MSVOA_D

ClientSampleId :

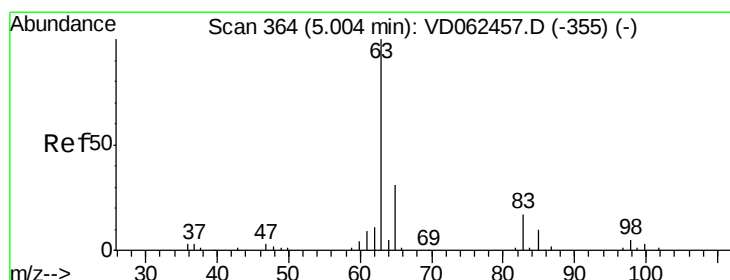
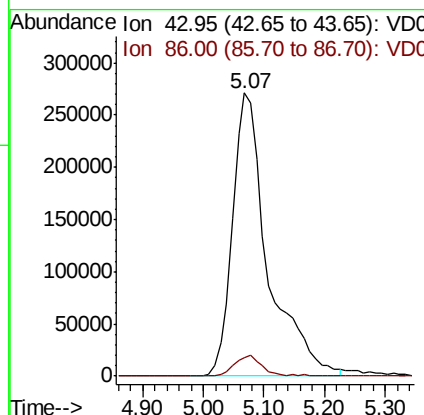
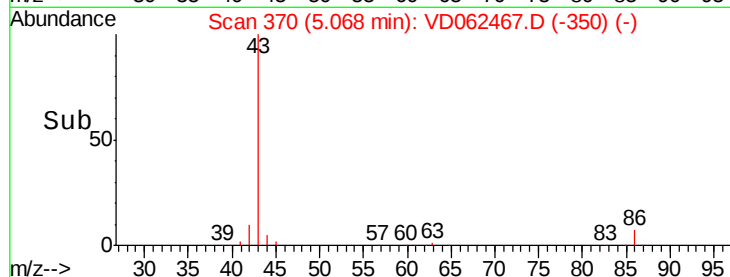
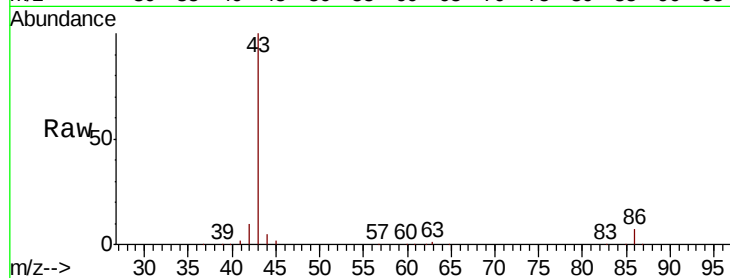
VD0520SBS01

Tot Ion: 43 Resp: 1102823

Ion Ratio Lower Upper

43 100

86 6.7 6.4 9.6



#24

1,1-Dichloroethane

Concen: 21.462 ug/l

RT: 5.00 min Scan# 363

Delta R.T. -0.01 min

Lab File: VD062467.D

Acq: 20 May 2019 20:25

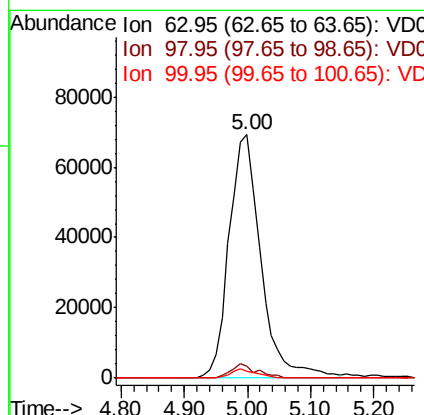
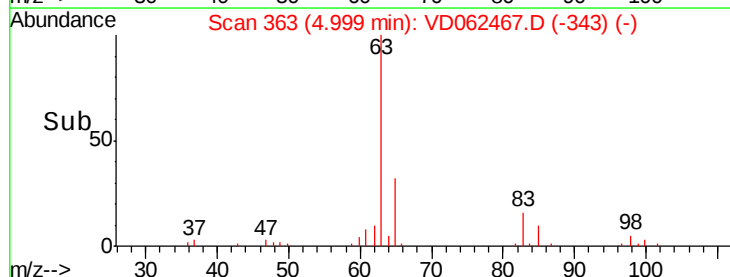
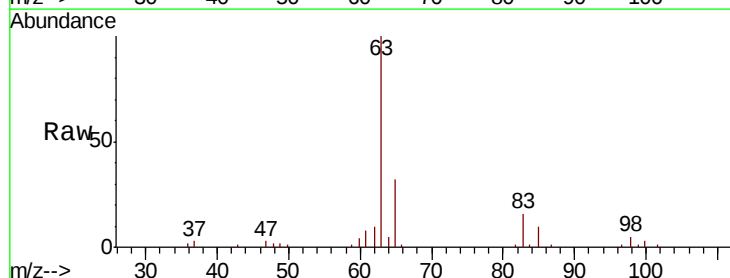
Tgt Ion: 63 Resp: 242741

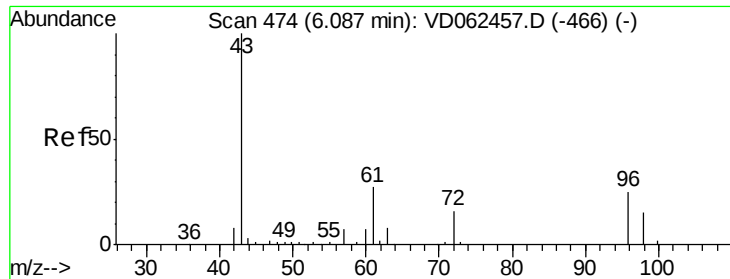
Ion Ratio Lower Upper

63 100

98 4.7 2.8 8.4

100 2.9 1.8 5.5

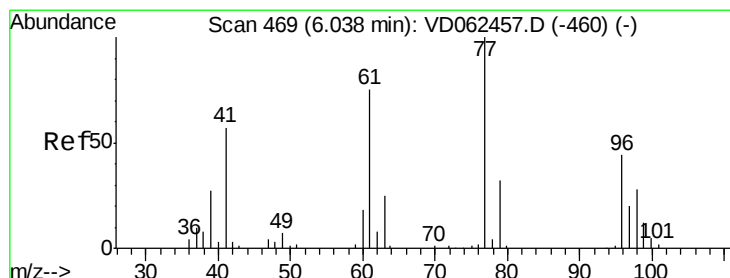
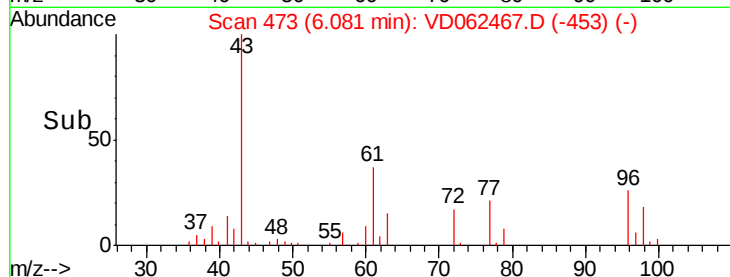
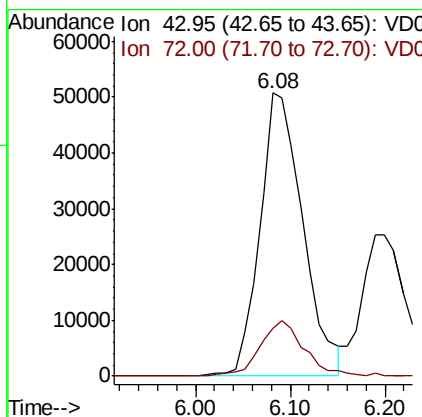
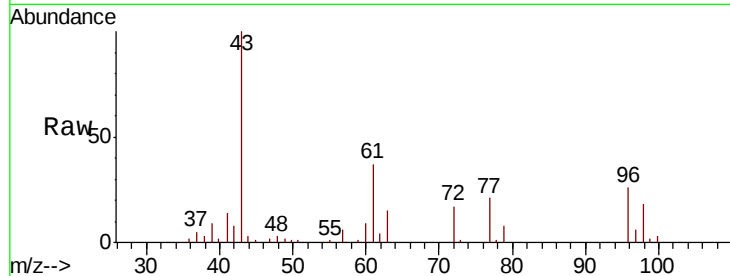




#25
2-Butanone
Concen: 105.800 ug/l
RT: 6.08 min Scan# 473
Delta R.T. -0.01 min
Lab File: VD062467.D
Acq: 20 May 2019 20:25

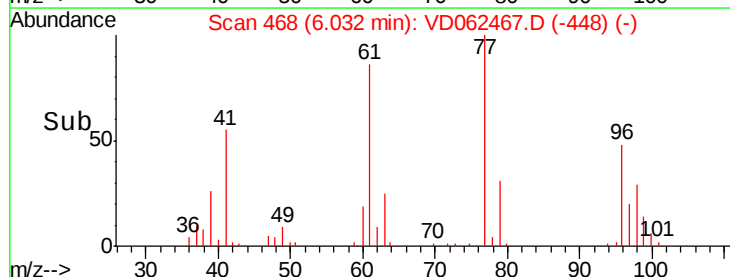
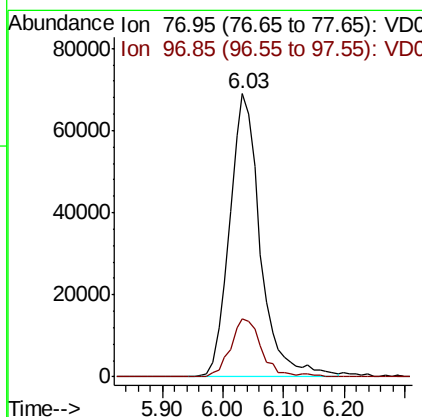
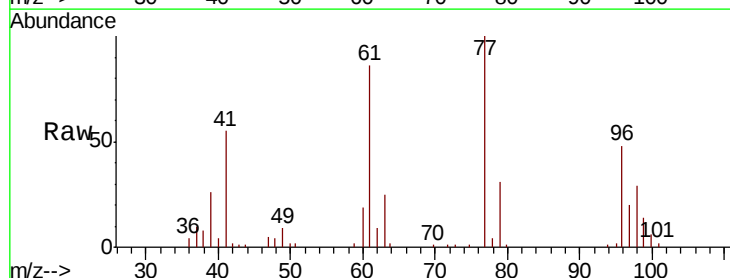
Instrument :
MSVOA_D
ClientSampleId :
VD0520SBS01

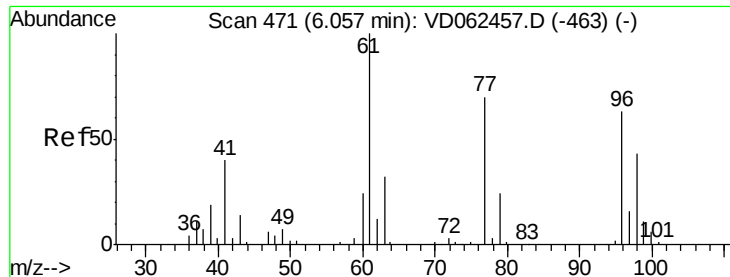
Tot Ion: 43 Resp: 160383
Ion Ratio Lower Upper
43 100
72 16.9 16.2 24.4



#26
2,2-Dichloropropane
Concen: 19.890 ug/l
RT: 6.03 min Scan# 468
Delta R.T. -0.01 min
Lab File: VD062467.D
Acq: 20 May 2019 20:25

Tgt Ion: 77 Resp: 242500
Ion Ratio Lower Upper
77 100
97 20.4 11.9 35.9



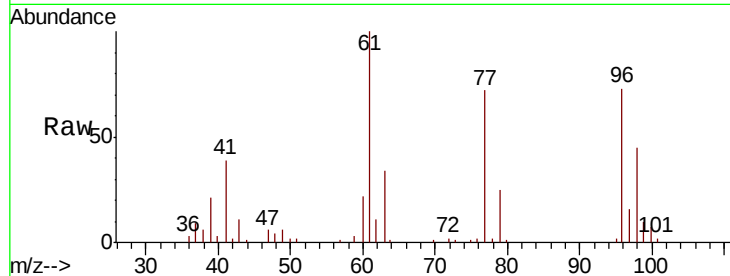


#27

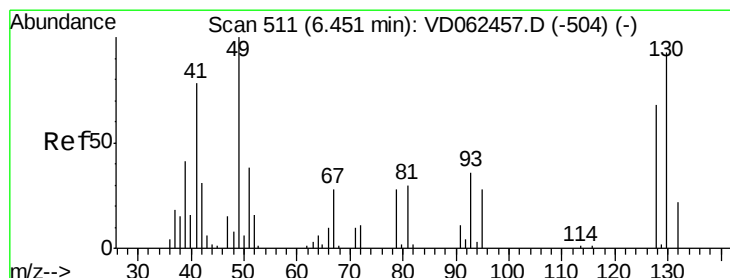
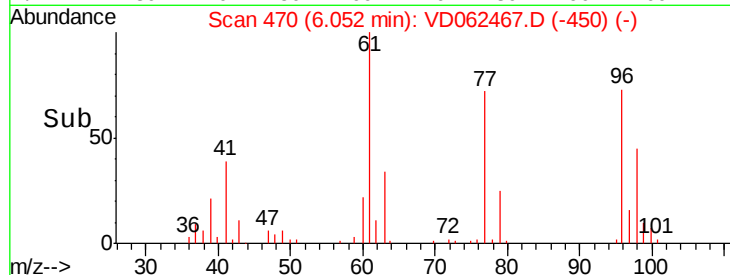
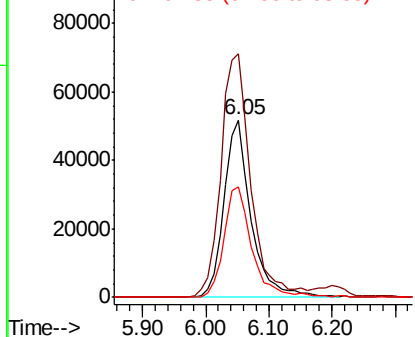
cis-1,2-Dichloroethene
 Concen: 21.627 ug/l
 RT: 6.05 min Scan# 470
 Delta R.T. -0.01 min
 Lab File: VD062467.D
 Acq: 20 May 2019 20:25

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0520SBS01

Tot Ion: 96 Resp: 152768
 Ion Ratio Lower Upper
 96 100
 61 137.5 0.0 279.8
 98 62.6 0.0 136.0



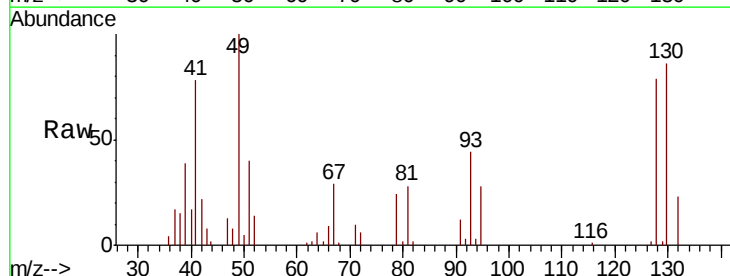
Abundance Ion 95.90 (95.60 to 96.60): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 97.85 (97.55 to 98.55): VDC



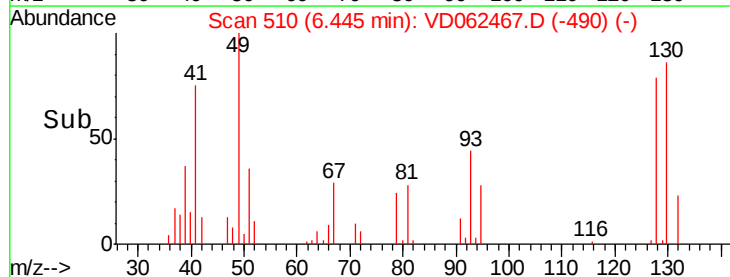
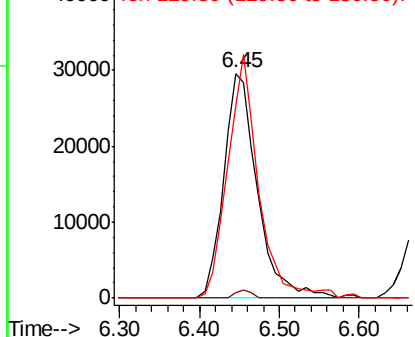
#28

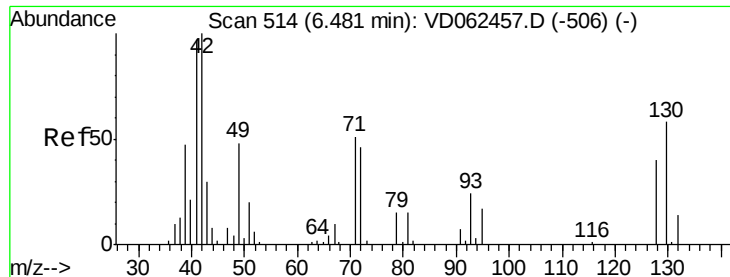
Bromochloromethane
 Concen: 21.483 ug/l
 RT: 6.45 min Scan# 510
 Delta R.T. -0.01 min
 Lab File: VD062467.D
 Acq: 20 May 2019 20:25

Tgt Ion: 49 Resp: 87206
 Ion Ratio Lower Upper
 49 100
 129 2.3 0.0 6.6
 130 85.7 86.7 130.1#



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

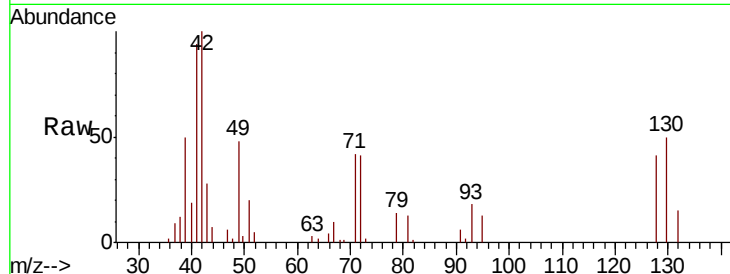




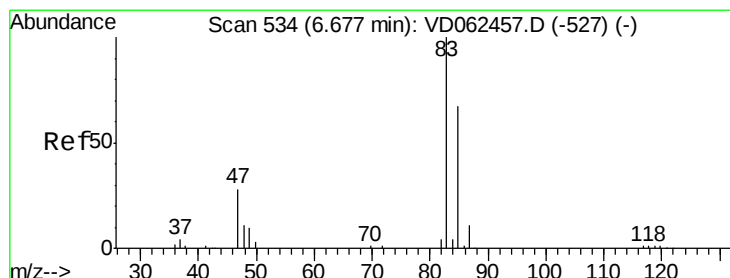
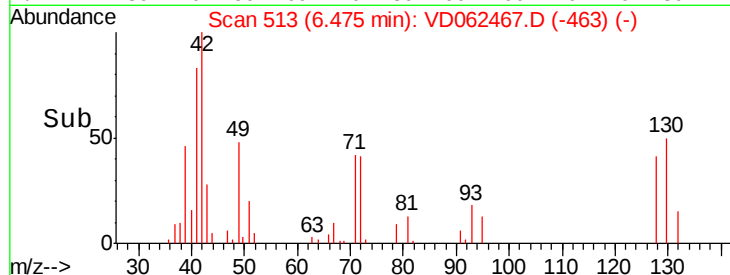
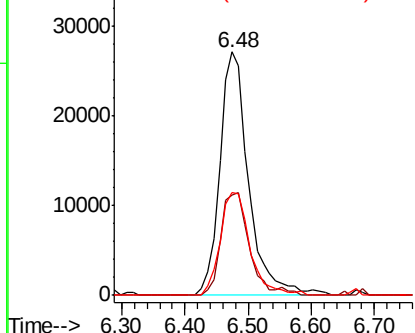
#29
Tetrahydrofuran
Concen: 119.305 ug/l
RT: 6.48 min Scan# 513
Delta R.T. -0.01 min
Lab File: VD062467.D
Acq: 20 May 2019 20:25

Instrument :
MSVOA_D
ClientSampleId :
VD0520SBS01

Tot Ion: 42 Resp: 86374
Ion Ratio Lower Upper
42 100
72 40.5 37.8 56.6
71 43.4 36.7 55.1

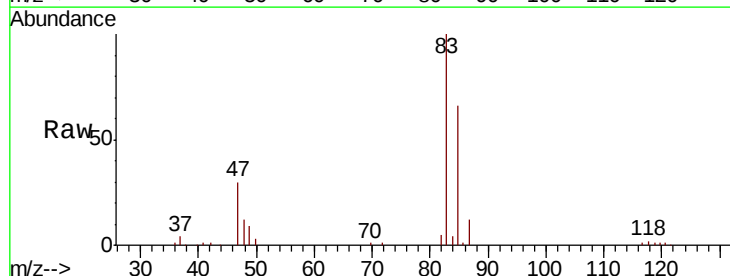


Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC

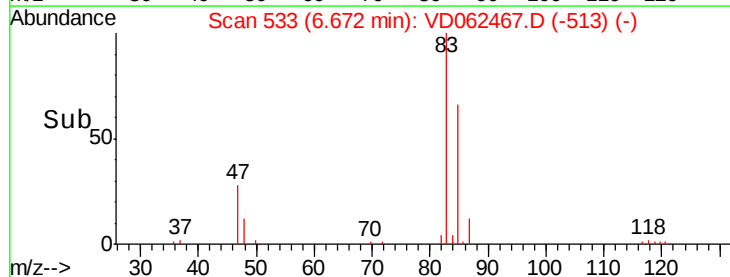
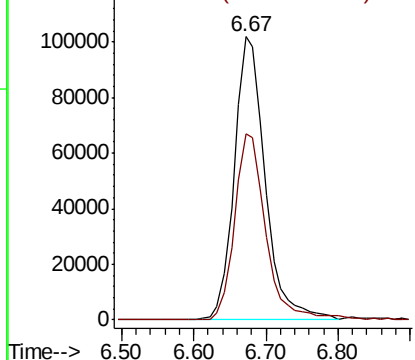


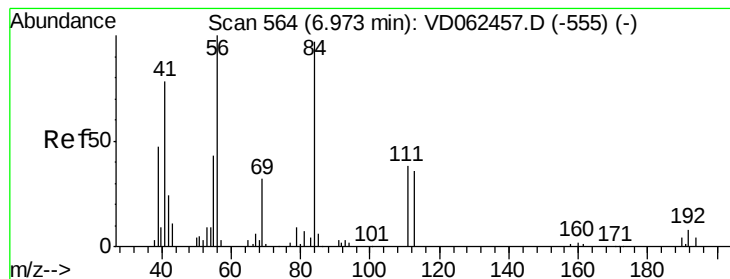
#30
Chloroform
Concen: 21.107 ug/l
RT: 6.67 min Scan# 533
Delta R.T. -0.01 min
Lab File: VD062467.D
Acq: 20 May 2019 20:25

Tgt Ion: 83 Resp: 304347
Ion Ratio Lower Upper
83 100
85 65.6 51.7 77.5



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





#31

Cyclohexane

Concen: 21.269 ug/l

RT: 6.97 min Scan# 563

Delta R.T. -0.01 min

Lab File: VD062467.D

Acq: 20 May 2019 20:25

Instrument :

MSVOA_D

ClientSampleId :

VD0520SBS01

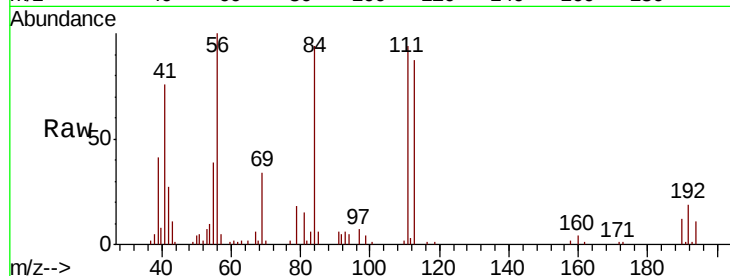
Tot Ion: 56 Resp: 162423

Ion Ratio Lower Upper

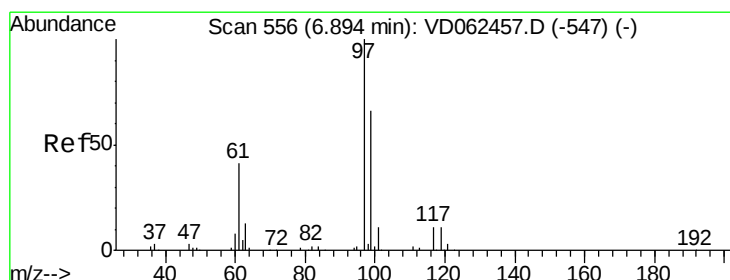
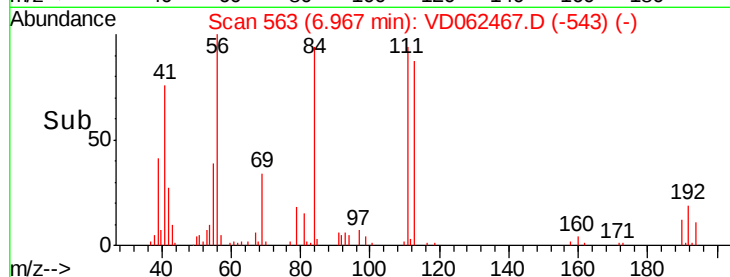
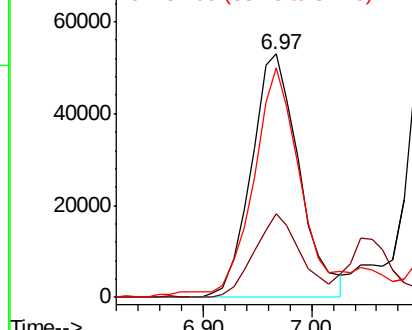
56 100

69 34.3 25.8 38.6

84 94.1 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: 19.919 ug/l

RT: 6.88 min Scan# 554

Delta R.T. -0.02 min

Lab File: VD062467.D

Acq: 20 May 2019 20:25

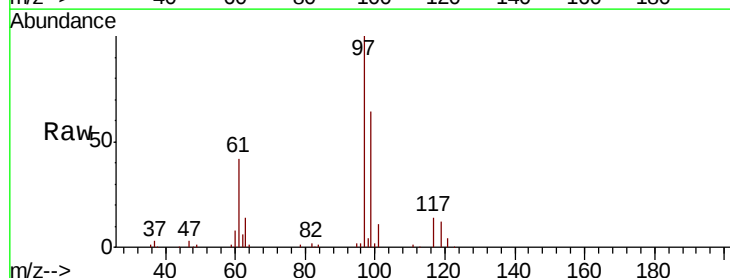
Tgt Ion: 97 Resp: 289979

Ion Ratio Lower Upper

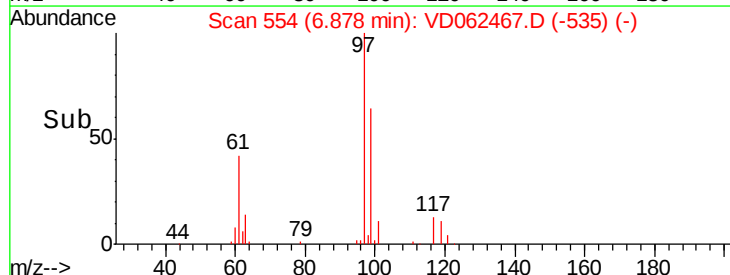
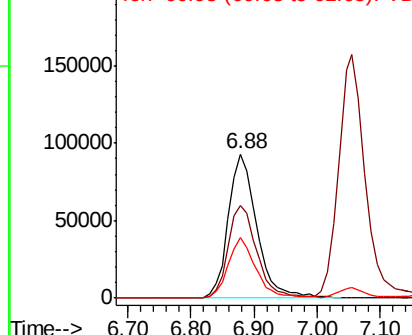
97 100

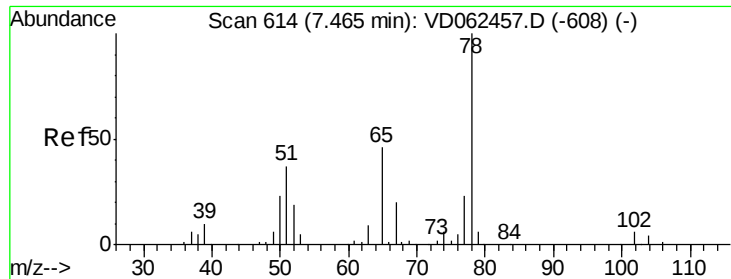
99 64.2 52.2 78.2

61 41.9 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: 53.710 ug/l

RT: 7.47 min Scan# 614

Delta R.T. 0.00 min

Lab File: VD062467.D

Acq: 20 May 2019 20:25

Instrument :

MSVOA_D

ClientSampleId :

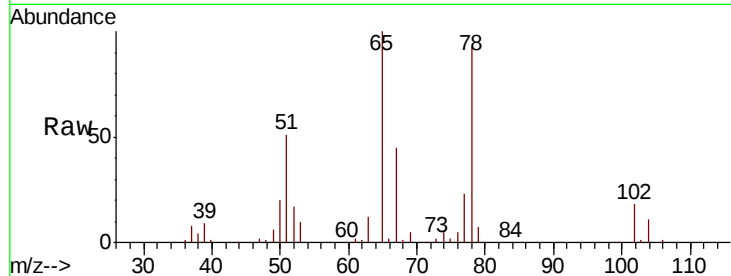
VD0520SBS01

Tot Ion: 65 Resp: 434411

Ion Ratio Lower Upper

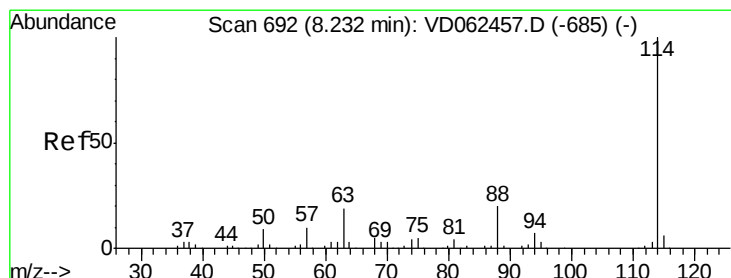
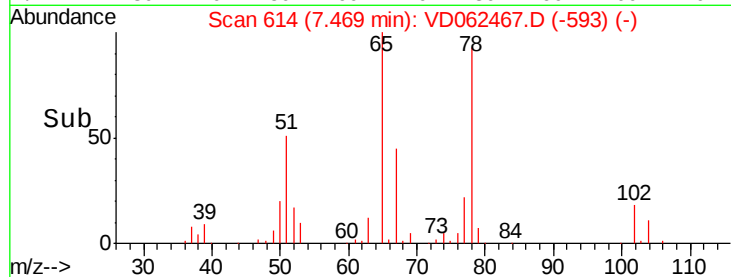
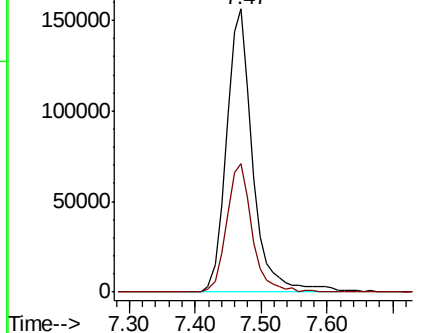
65 100

67 45.3 0.0 98.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.23 min Scan# 691

Delta R.T. -0.01 min

Lab File: VD062467.D

Acq: 20 May 2019 20:25

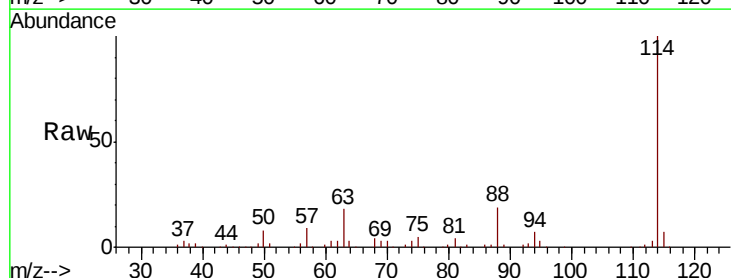
Tgt Ion: 114 Resp: 1043919

Ion Ratio Lower Upper

114 100

63 18.0 0.0 32.4

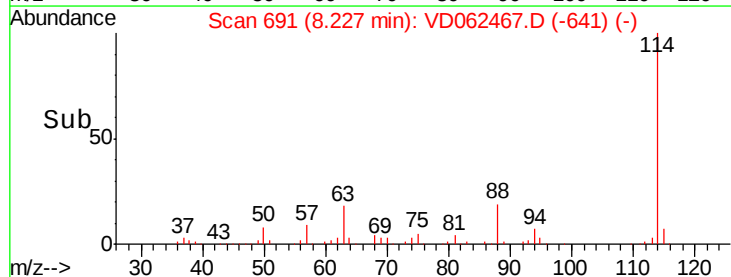
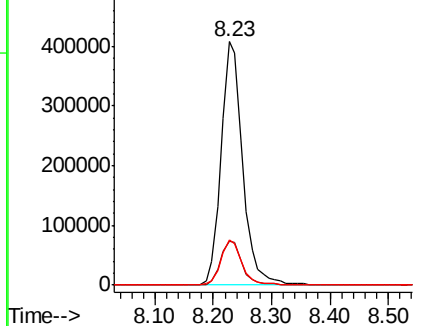
88 18.6 0.0 33.6

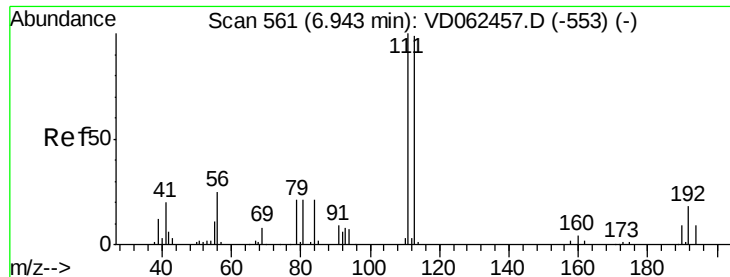


Abundance Ion 114.00 (113.70 to 114.70): VDC

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 51.160 ug/l

RT: 6.94 min Scan# 560

Delta R.T. -0.01 min

Lab File: VD062467.D

Acq: 20 May 2019 20:25

Instrument :

MSVOA_D

ClientSampleId :

VD0520SBS01

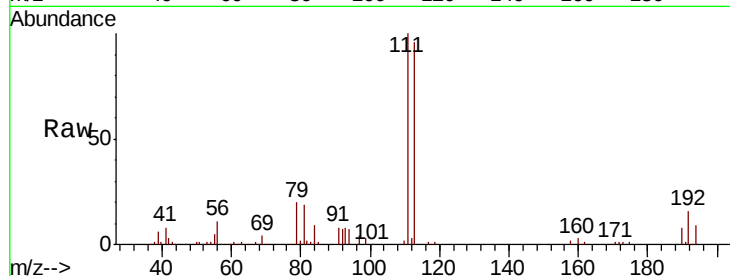
Tot Ion:113 Resp: 481795

Ion Ratio Lower Upper

113 100

111 104.2 78.5 117.7

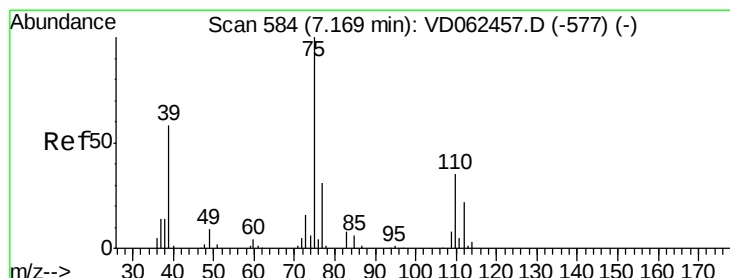
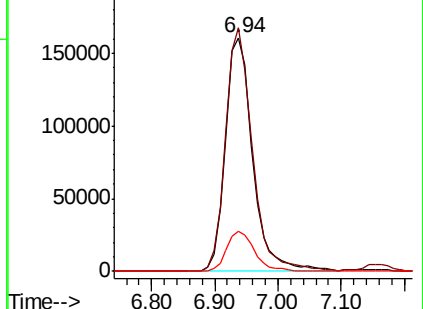
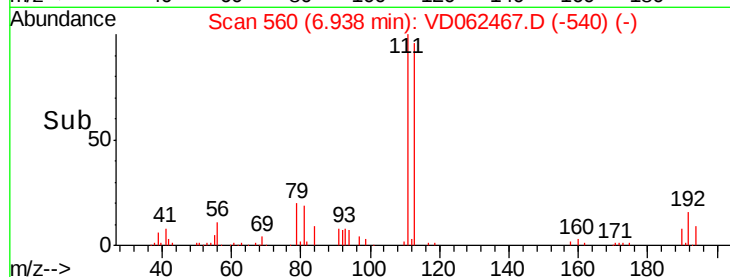
192 17.0 13.0 19.4



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: 20.478 ug/l

RT: 7.15 min Scan# 582

Delta R.T. -0.02 min

Lab File: VD062467.D

Acq: 20 May 2019 20:25

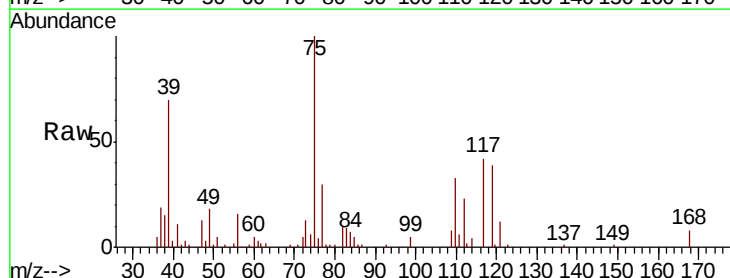
Tgt Ion: 75 Resp: 204386

Ion Ratio Lower Upper

75 100

110 33.3 19.1 57.1

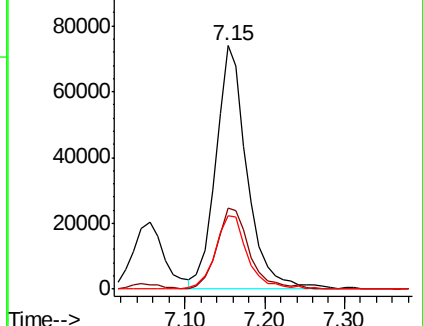
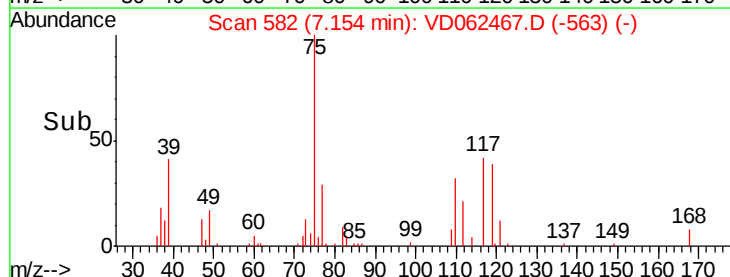
77 30.3 25.6 38.4

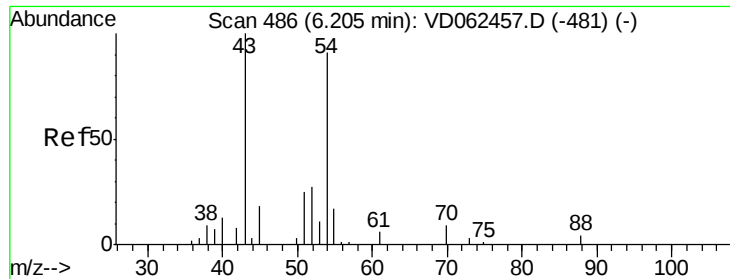


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

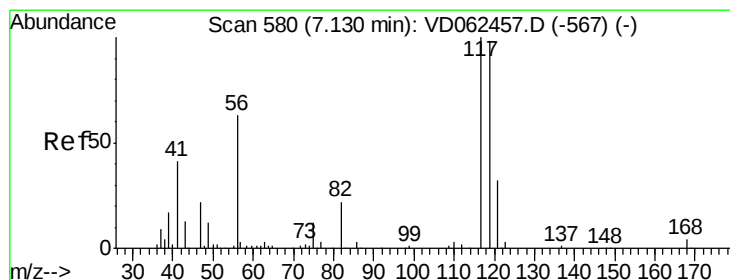
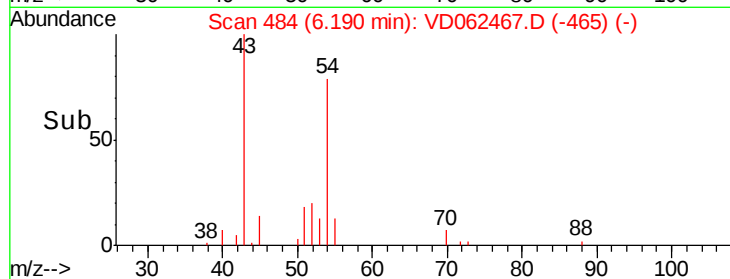
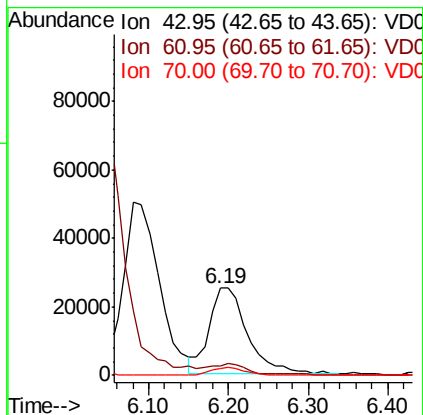
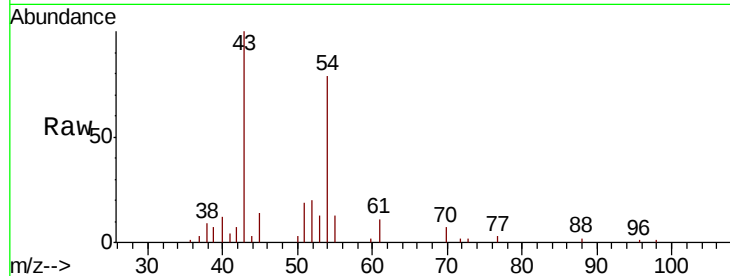




#37
Ethyl Acetate
Concen: 22.023 ug/l
RT: 6.19 min Scan# 484
Delta R.T. -0.02 min
Lab File: VD062467.D
Acq: 20 May 2019 20:25

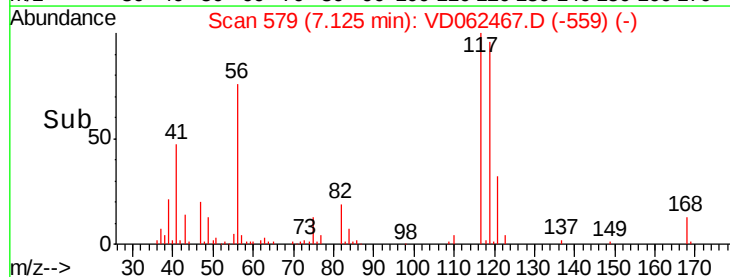
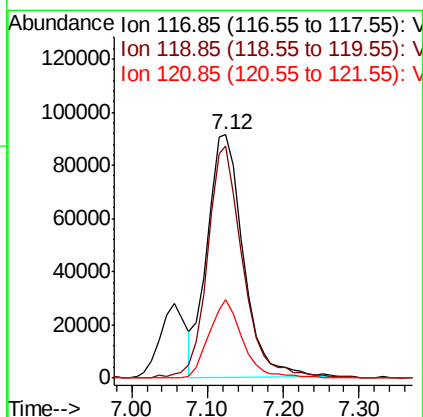
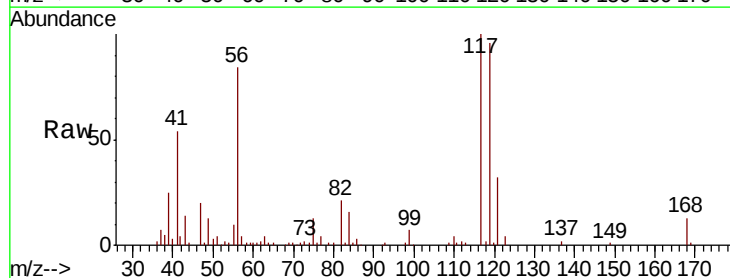
Instrument :
MSVOA_D
ClientSampleId :
VD0520SBS01

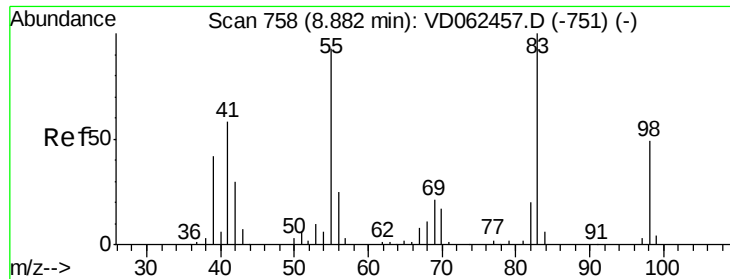
Tot Ion: 43 Resp: 85390
Ion Ratio Lower Upper
43 100
61 11.4 14.7 22.1#
70 7.5 7.8 11.6#



#38
Carbon Tetrachloride
Concen: 20.433 ug/l
RT: 7.12 min Scan# 579
Delta R.T. -0.01 min
Lab File: VD062467.D
Acq: 20 May 2019 20:25

Tgt Ion: 117 Resp: 303082
Ion Ratio Lower Upper
117 100
119 95.5 75.8 113.8
121 32.3 25.9 38.9

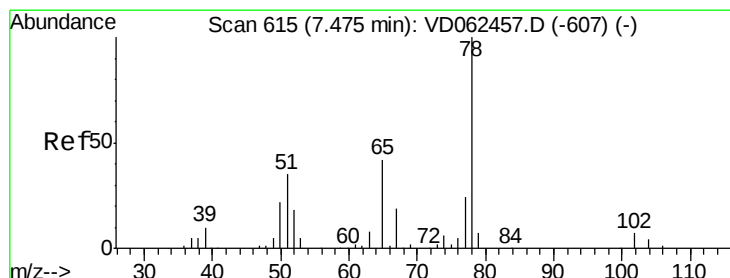
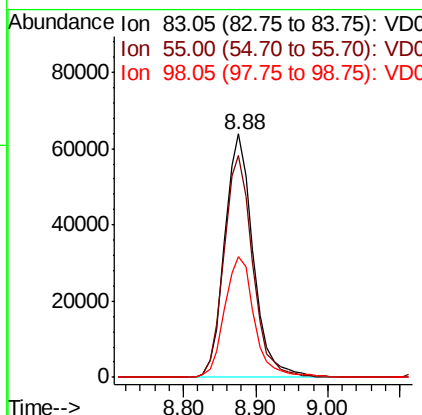
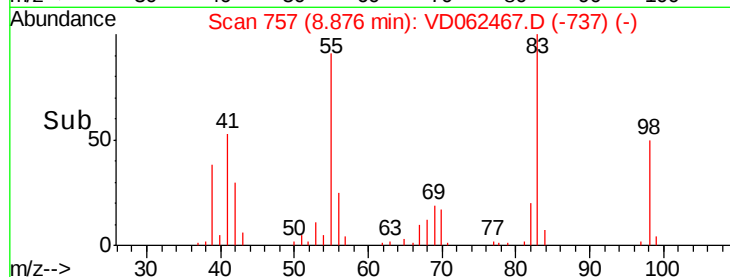
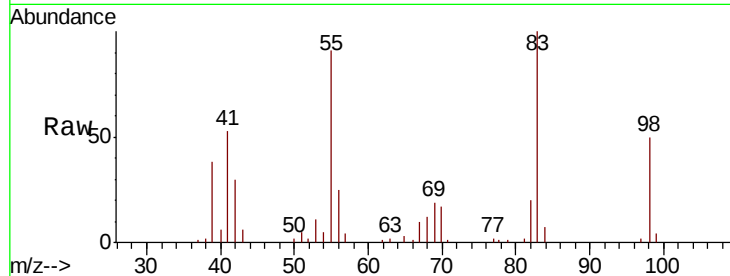




#39
Methvlcvclohexane
Concen: 21.210 ug/l
RT: 8.88 min Scan# 757
Delta R.T. -0.01 min
Lab File: VD062467.D
Acq: 20 May 2019 20:25

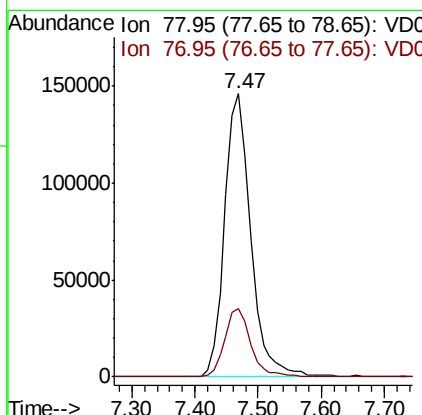
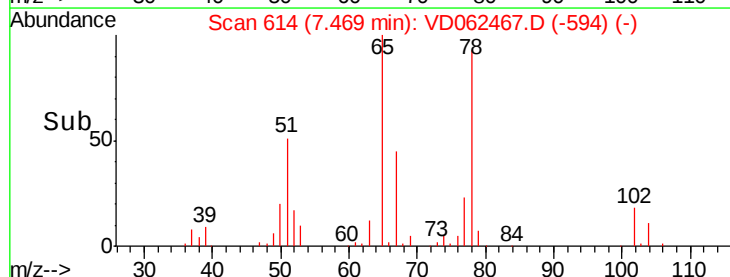
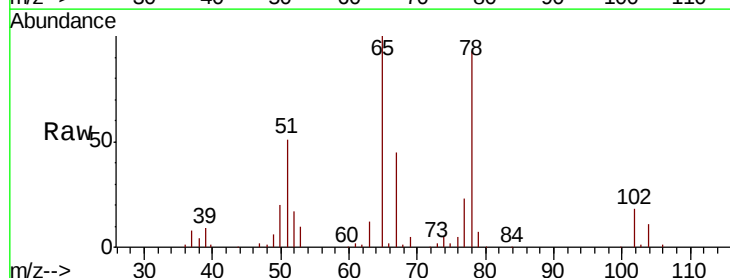
Instrument :
MSVOA_D
ClientSampleId :
VD0520SBS01

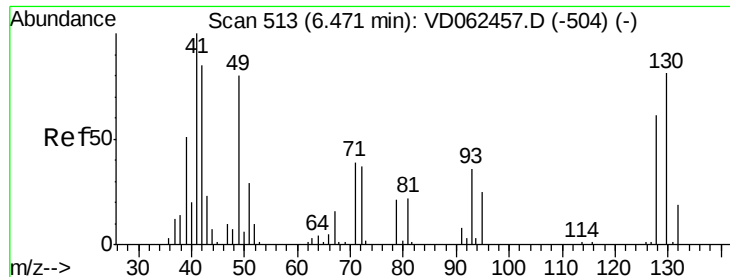
Tot Ion: 83 Resp: 174604
Ion Ratio Lower Upper
83 100
55 91.3 68.2 102.4
98 49.6 38.2 57.4



#40
Benzene
Concen: 21.444 ug/l
RT: 7.47 min Scan# 614
Delta R.T. -0.01 min
Lab File: VD062467.D
Acq: 20 May 2019 20:25

Tgt Ion: 78 Resp: 419817
Ion Ratio Lower Upper
78 100
77 24.1 19.7 29.5





#41

Methacrylonitrile

Concen: 23.038 ug/l

RT: 6.47 min Scan# 512

Delta R.T. -0.01 min

Lab File: VD062467.D

Acq: 20 May 2019 20:25

Instrument :

MSVOA_D

ClientSampleId :

VD0520SBS01

Tot Ion: 41 Resp: 112187

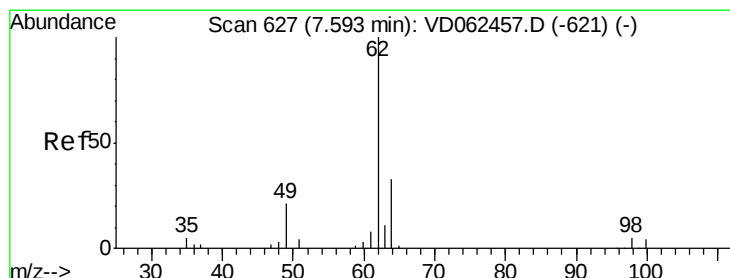
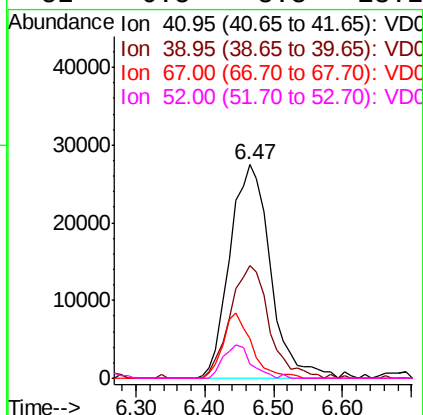
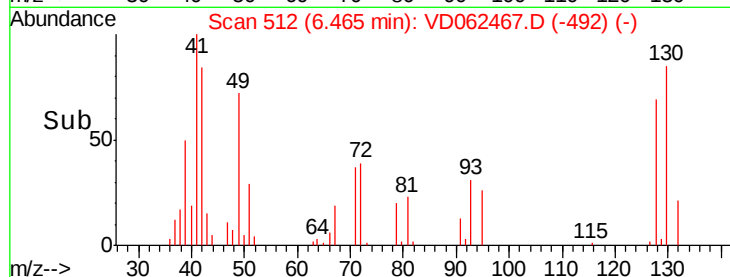
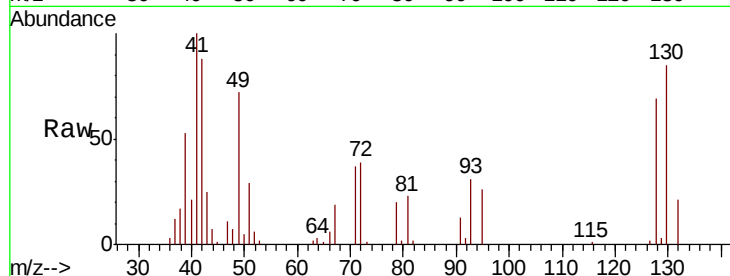
Ion Ratio Lower Upper

41 100

39 52.5 34.1 51.1#

67 18.8 23.8 35.6#

52 6.5 8.8 13.2#



#42

1,2-Dichloroethane

Concen: 20.608 ug/l

RT: 7.59 min Scan# 626

Delta R.T. -0.01 min

Lab File: VD062467.D

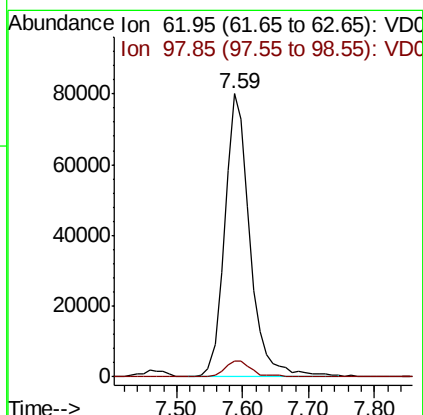
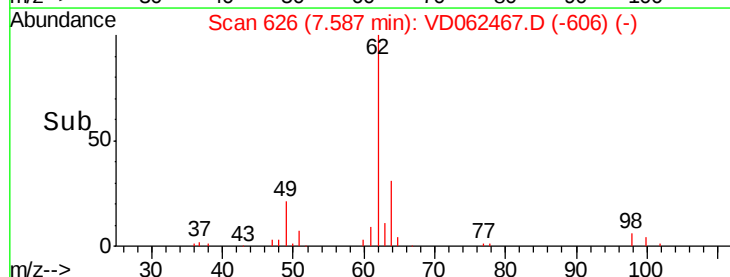
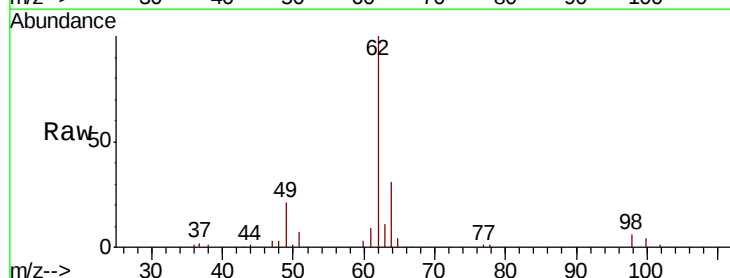
Acq: 20 May 2019 20:25

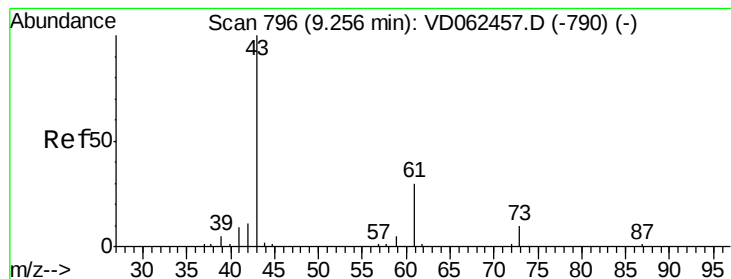
Tgt Ion: 62 Resp: 213633

Ion Ratio Lower Upper

62 100

98 5.7 0.0 17.8



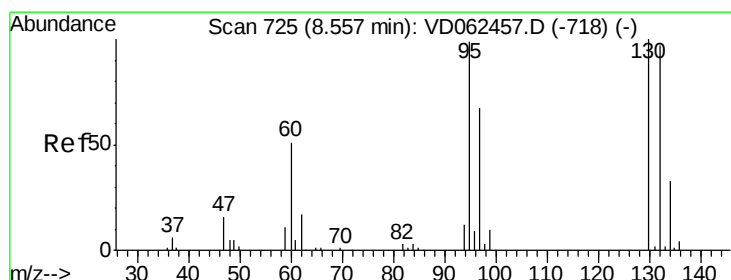
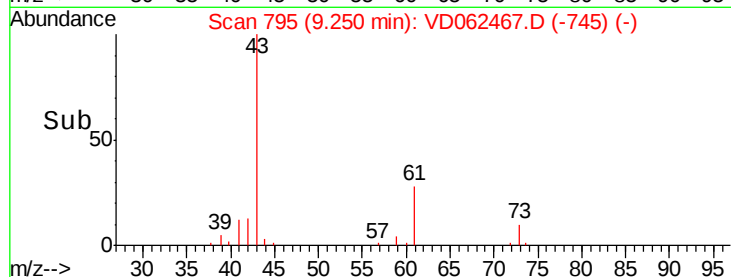
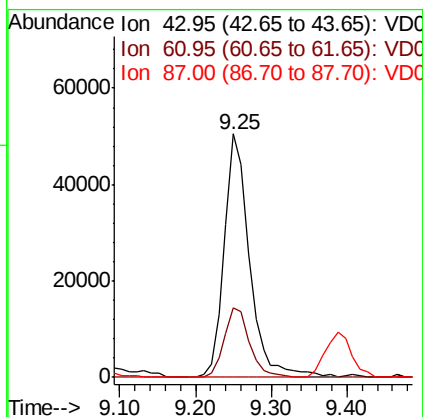
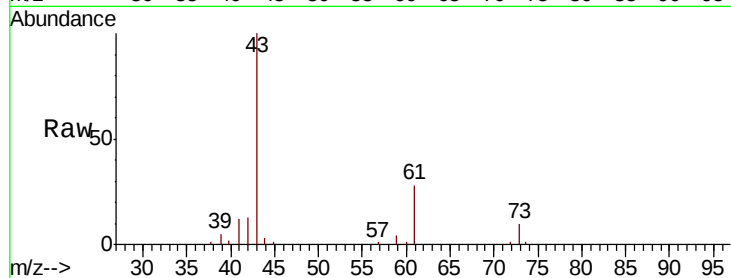


#43

Isopropyl Acetate
 Concen: 22.790 ug/l
 RT: 9.25 min Scan# 795
 Delta R.T. -0.01 min
 Lab File: VD062467.D
 Acq: 20 May 2019 20:25

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0520SBS01

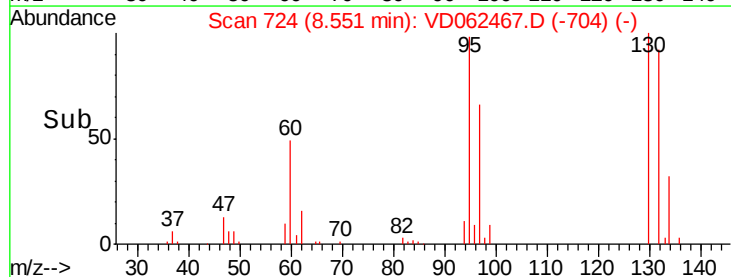
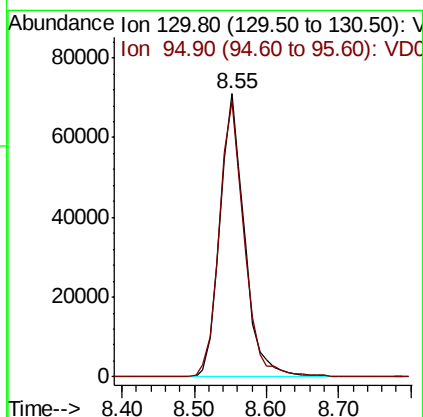
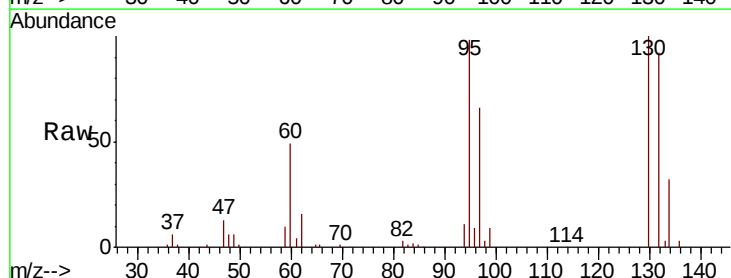
Tot Ion: 43 Resp: 117221
 Ion Ratio Lower Upper
 43 100
 61 28.3 25.1 37.7
 87 0.0 0.0 0.0

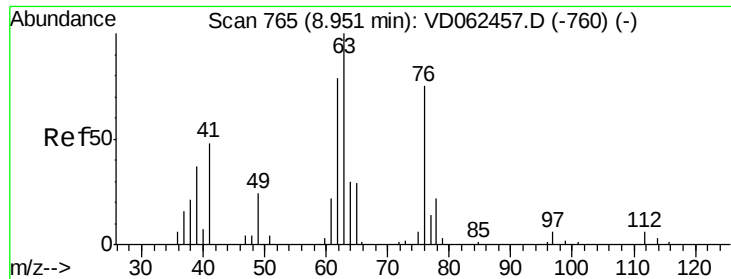


#44

Trichloroethene
 Concen: 21.184 ug/l
 RT: 8.55 min Scan# 724
 Delta R.T. -0.01 min
 Lab File: VD062467.D
 Acq: 20 May 2019 20:25

Tgt Ion:130 Resp: 166048
 Ion Ratio Lower Upper
 130 100
 95 97.6 0.0 174.0





#45

1,2-Dichloropropane

Concen: 22.129 ug/l

RT: 8.95 min Scan# 764

Delta R.T. -0.01 min

Lab File: VD062467.D

Acq: 20 May 2019 20:25

Instrument :

MSVOA_D

ClientSampleId :

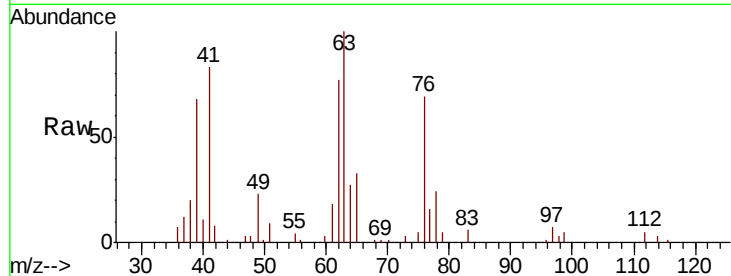
VD0520SBS01

Tot Ion: 63 Resp: 105575

Ion Ratio Lower Upper

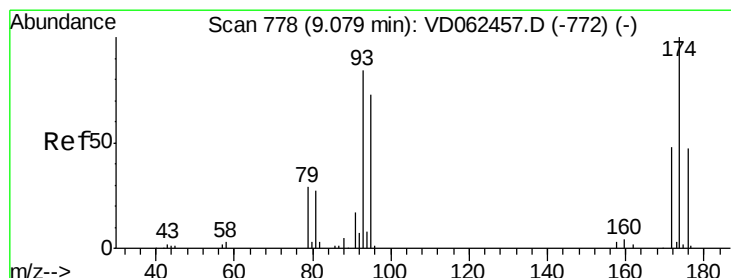
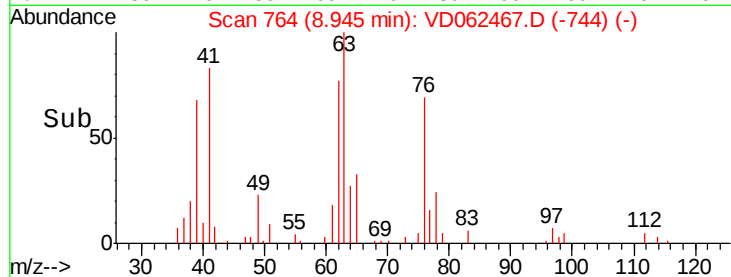
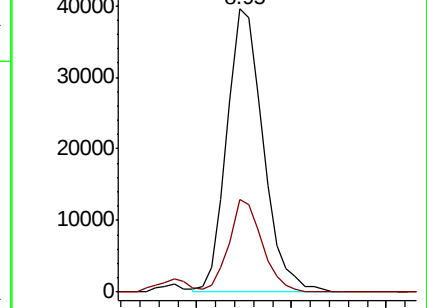
63 100

65 32.9 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: 20.920 ug/l

RT: 9.07 min Scan# 777

Delta R.T. -0.01 min

Lab File: VD062467.D

Acq: 20 May 2019 20:25

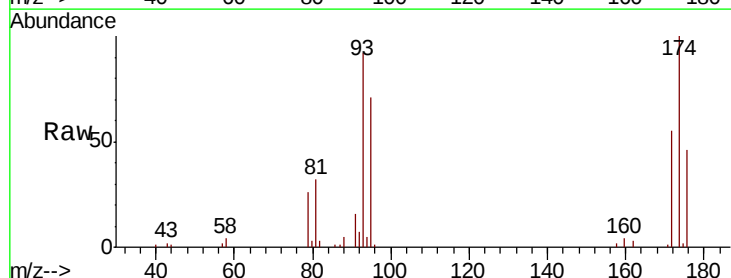
Tgt Ion: 93 Resp: 90473

Ion Ratio Lower Upper

93 100

95 76.9 64.8 97.2

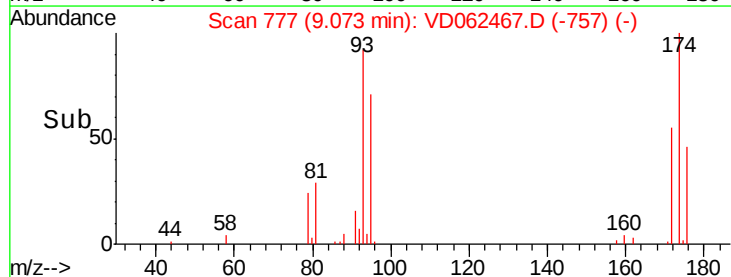
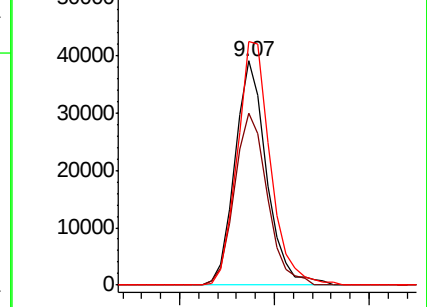
174 108.6 79.3 118.9

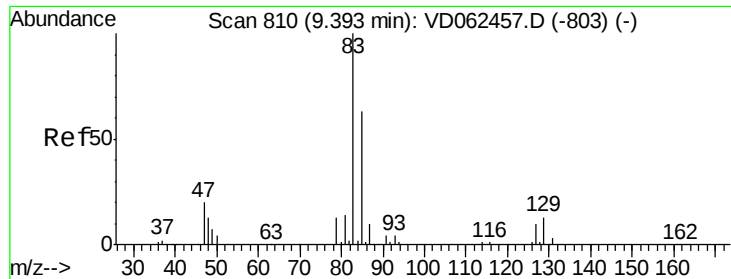


Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V





#47

Bromodichloromethane

Concen: 20.478 ug/l

RT: 9.39 min Scan# 809

Delta R.T. -0.01 min

Lab File: VD062467.D

Acq: 20 May 2019 20:25

Instrument :

MSVOA_D

ClientSampleId :

VD0520SBS01

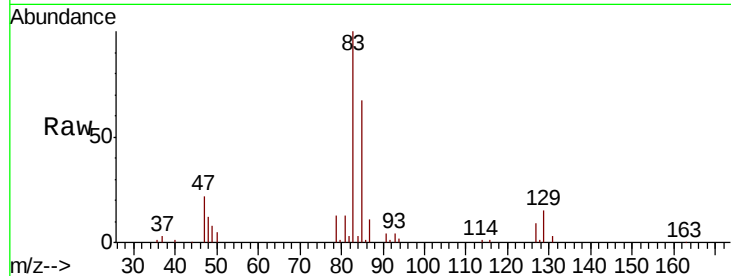
Tot Ion: 83 Resp: 225292

Ion Ratio Lower Upper

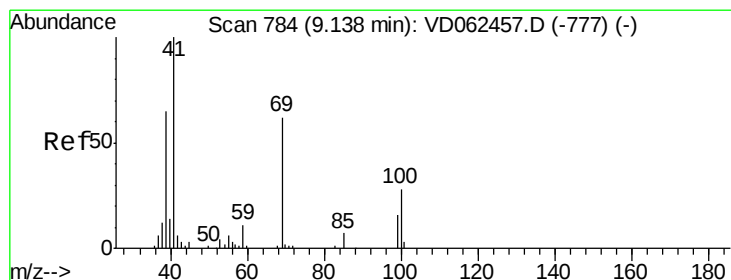
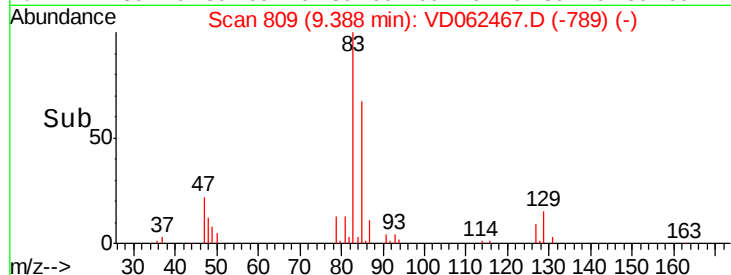
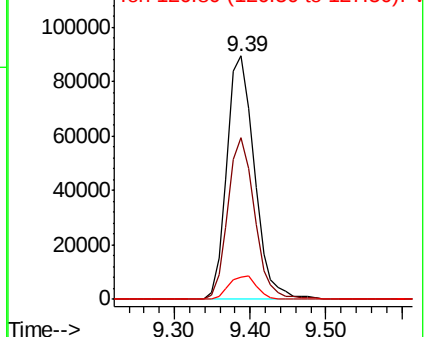
83 100

85 66.6 50.9 76.3

127 9.3 8.1 12.1



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



#48

Methyl methacrylate

Concen: 21.103 ug/l

RT: 9.13 min Scan# 783

Delta R.T. -0.01 min

Lab File: VD062467.D

Acq: 20 May 2019 20:25

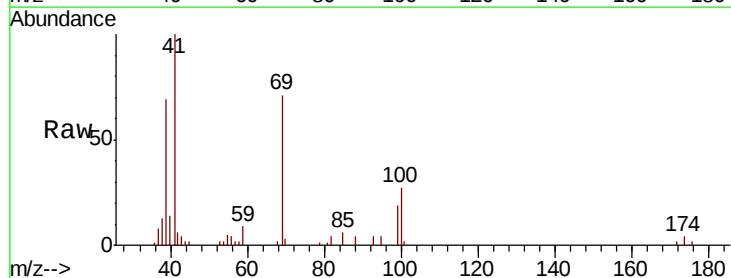
Tgt Ion: 41 Resp: 73047

Ion Ratio Lower Upper

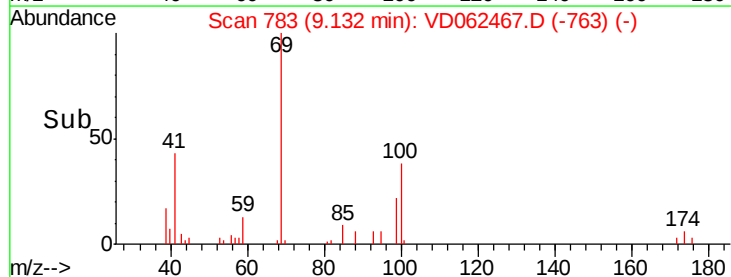
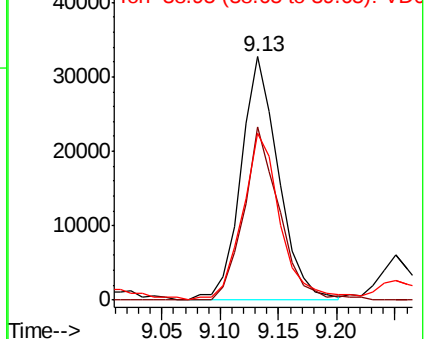
41 100

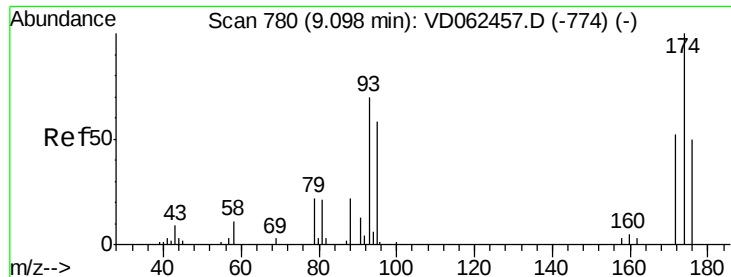
69 71.3 64.2 96.2

39 68.7 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

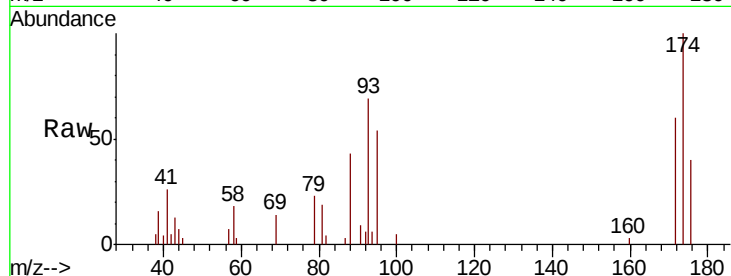




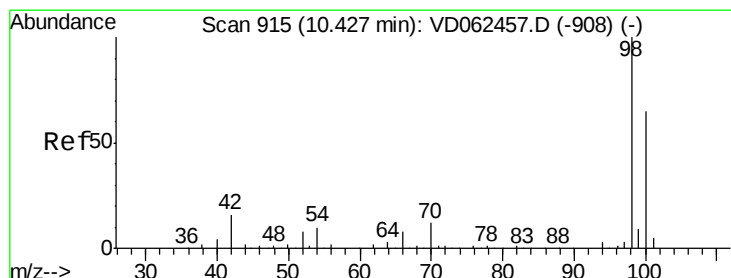
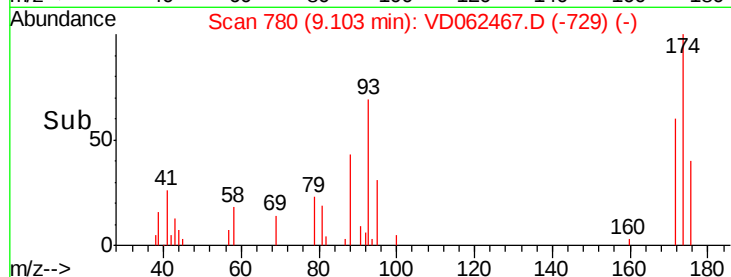
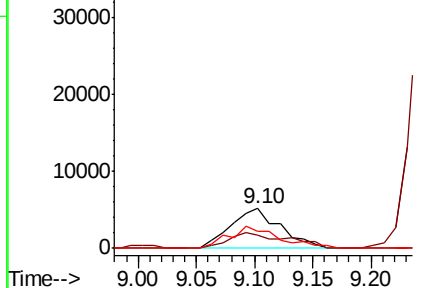
#49
1,4-Dioxane
Concen: 487.380 ug/l
RT: 9.10 min Scan# 780
Delta R.T. 0.00 min
Lab File: VD062467.D
Acq: 20 May 2019 20:25

Instrument :
MSVOA_D
ClientSampleId :
VD0520SBS01

Tot Ion: 88 Resp: 15132
Ion Ratio Lower Upper
88 100
43 31.5 23.4 35.0
58 41.6 44.0 66.0#

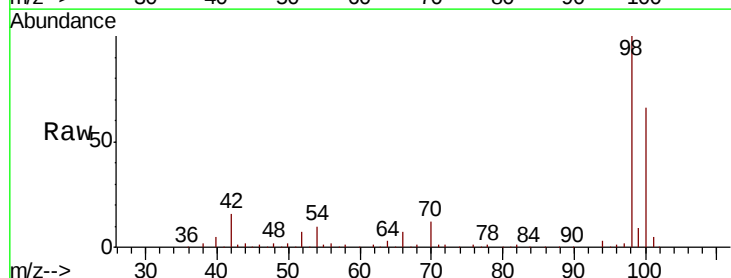


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

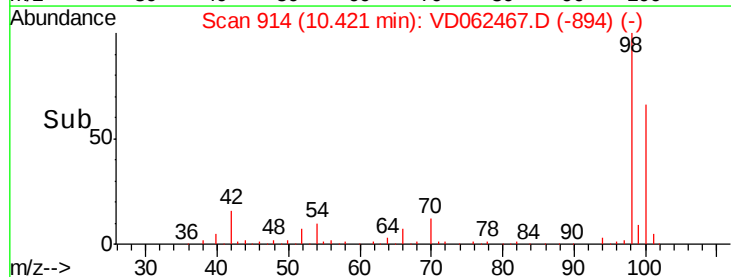
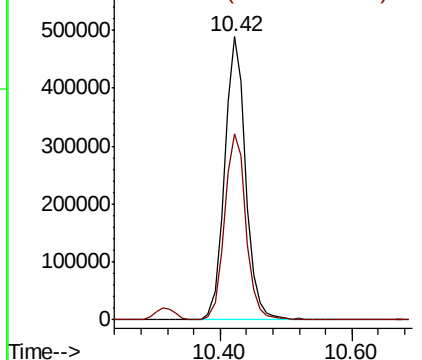


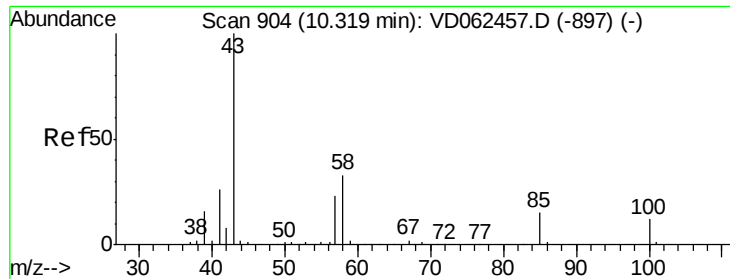
#50
Toluene-d8
Concen: 53.077 ug/l
RT: 10.42 min Scan# 914
Delta R.T. -0.01 min
Lab File: VD062467.D
Acq: 20 May 2019 20:25

Tgt Ion: 98 Resp: 1093868
Ion Ratio Lower Upper
98 100
100 65.9 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: 112.518 ug/l

RT: 10.31 min Scan# 903

Delta R.T. -0.01 min

Lab File: VD062467.D

Acq: 20 May 2019 20:25

Instrument :

MSVOA_D

ClientSampleId :

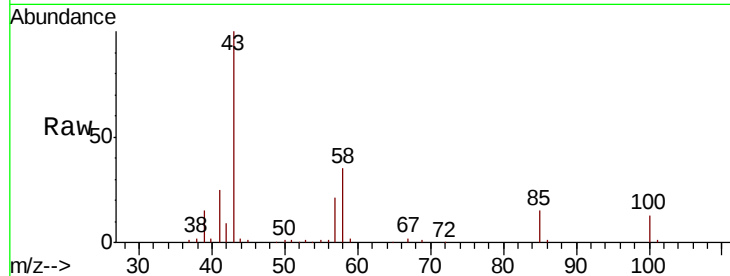
VD0520SBS01

Tot Ion: 43 Resp: 382336

Ion Ratio Lower Upper

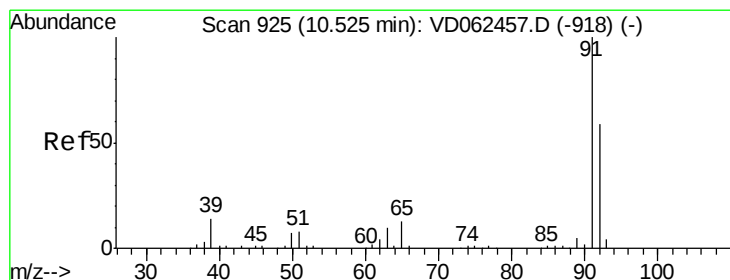
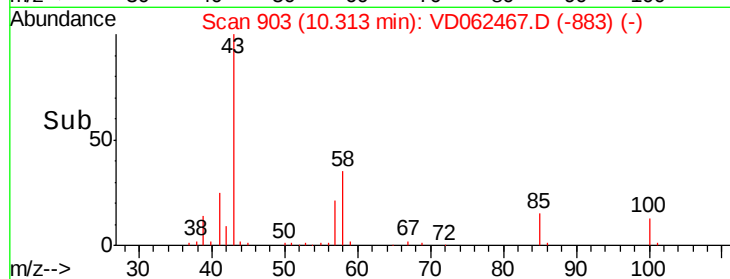
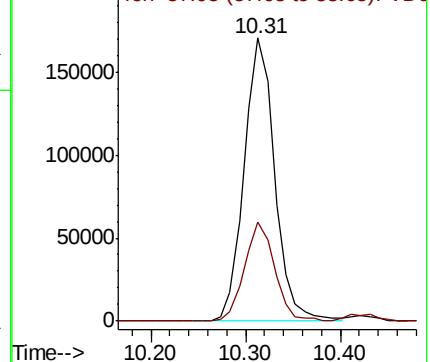
43 100

58 35.0 30.4 45.6



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 20.250 ug/l

RT: 10.52 min Scan# 924

Delta R.T. -0.01 min

Lab File: VD062467.D

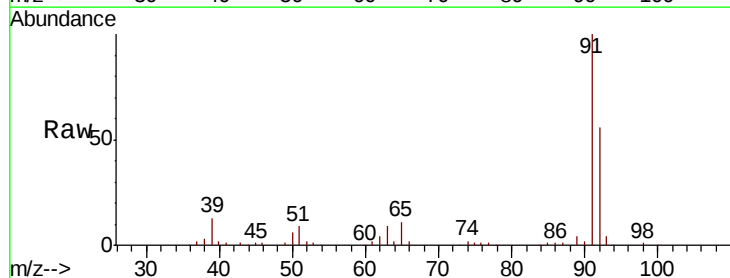
Acq: 20 May 2019 20:25

Tgt Ion: 92 Resp: 271391

Ion Ratio Lower Upper

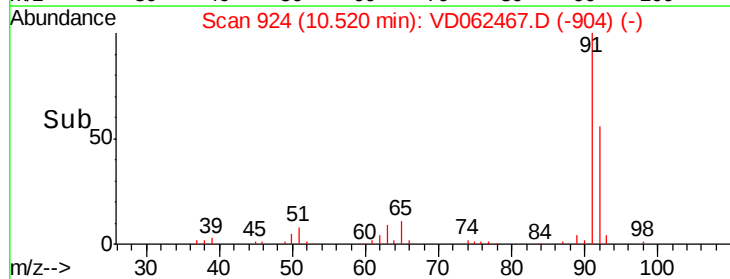
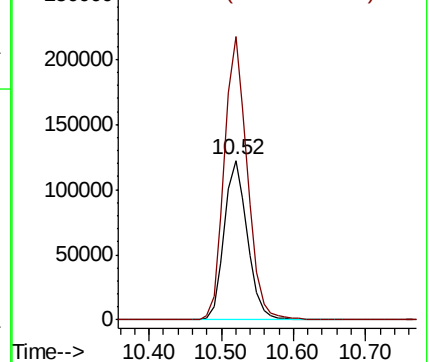
92 100

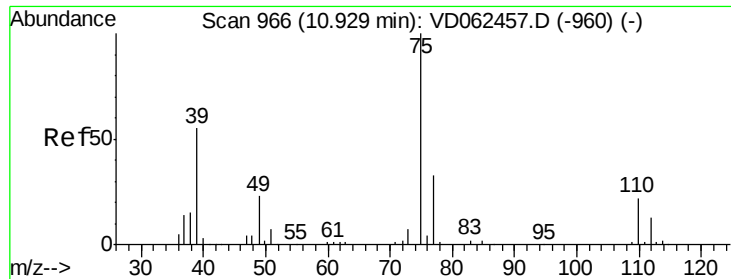
91 177.3 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

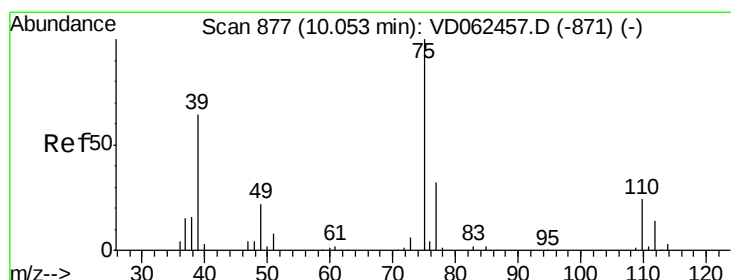
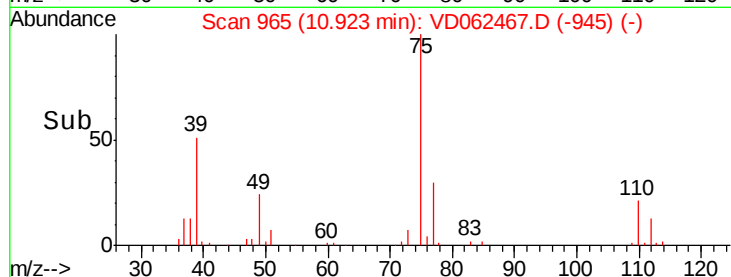
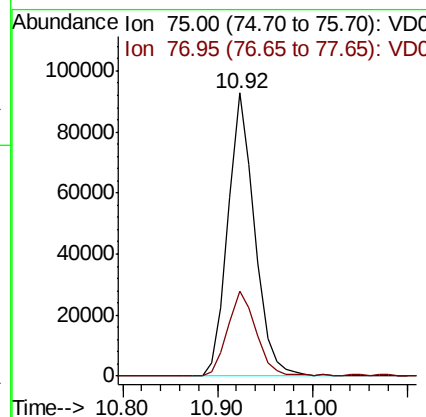
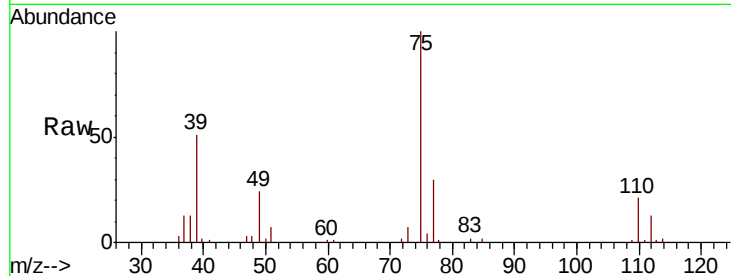




#53
 t-1,3-Dichloropropene
 Concen: 19.769 ug/l
 RT: 10.92 min Scan# 965
 Delta R.T. -0.01 min
 Lab File: VD062467.D
 Acq: 20 May 2019 20:25

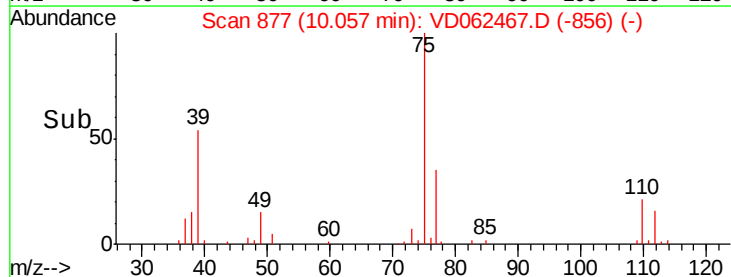
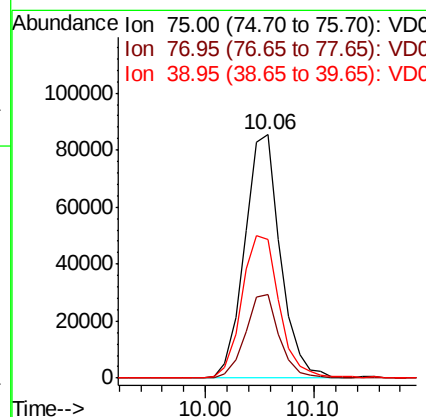
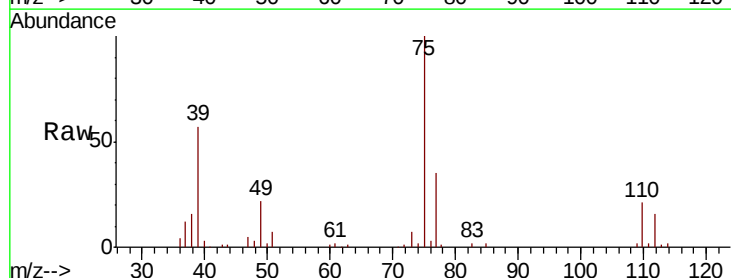
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0520SBS01

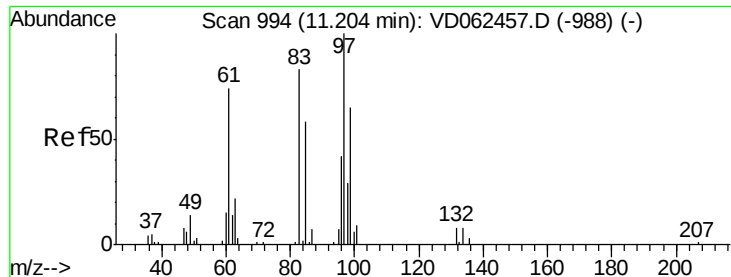
Tot Ion: 75 Resp: 181070
 Ion Ratio Lower Upper
 75 100
 77 29.9 25.8 38.8



#54
 cis-1,3-Dichloropropene
 Concen: 20.457 ug/l
 RT: 10.06 min Scan# 877
 Delta R.T. 0.00 min
 Lab File: VD062467.D
 Acq: 20 May 2019 20:25

Tgt Ion: 75 Resp: 195510
 Ion Ratio Lower Upper
 75 100
 77 34.6 25.5 38.3
 39 56.7 39.4 59.2

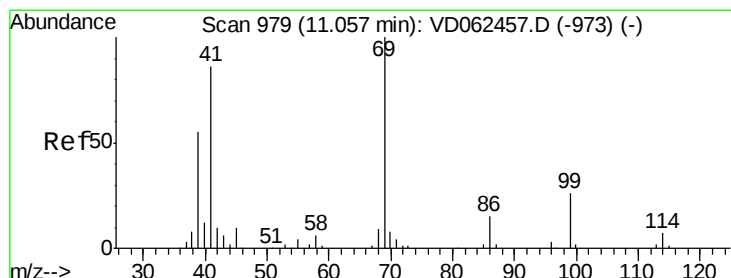
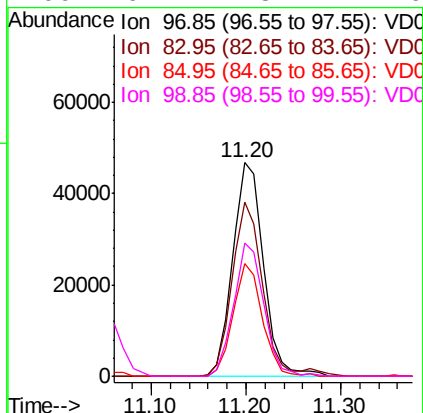
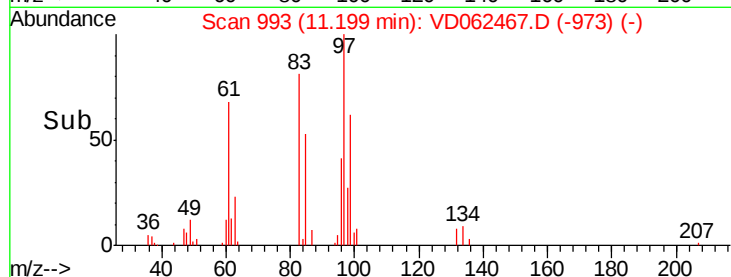
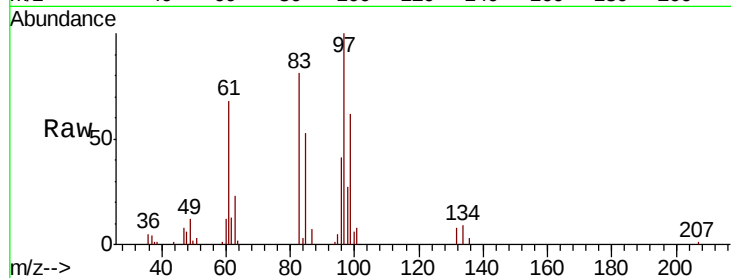




#55
 1,1,2-Trichloroethane
 Concen: 23.227 ug/l
 RT: 11.20 min Scan# 993
 Delta R.T. -0.01 min
 Lab File: VD062467.D
 Acq: 20 May 2019 20:25

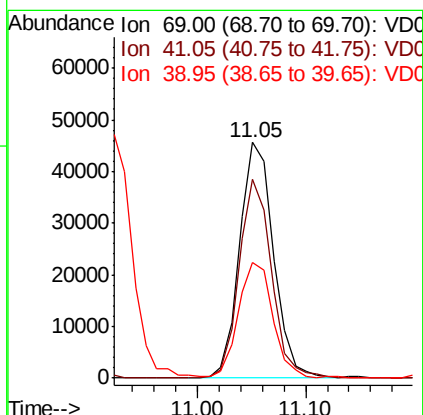
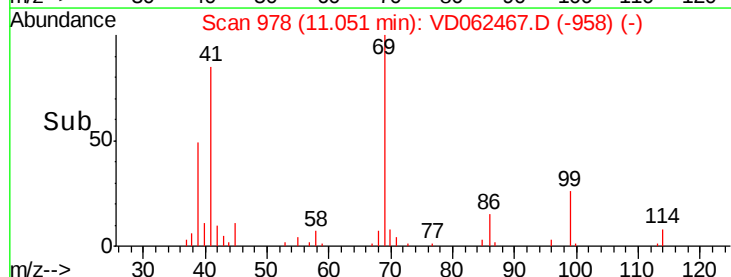
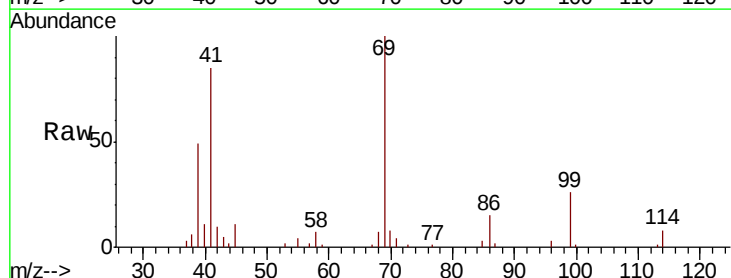
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0520SBS01

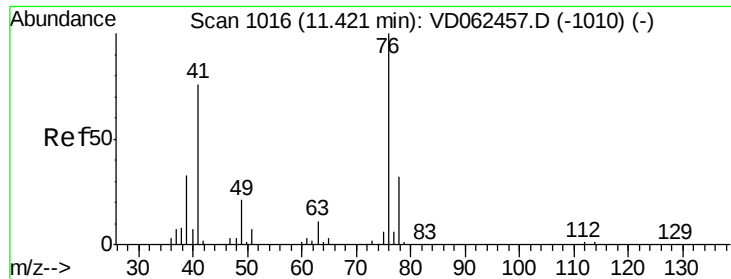
Tot Ion: 97 Resp: 105502
 Ion Ratio Lower Upper
 97 100
 83 81.3 65.7 98.5
 85 53.0 45.6 68.4
 99 62.4 48.4 72.6



#56
 Ethyl methacrylate
 Concen: 20.479 ug/l
 RT: 11.05 min Scan# 978
 Delta R.T. -0.01 min
 Lab File: VD062467.D
 Acq: 20 May 2019 20:25

Tgt Ion: 69 Resp: 99443
 Ion Ratio Lower Upper
 69 100
 41 84.6 56.3 84.5#
 39 49.0 29.4 44.2#





#57

1,3-Dichloropropane

Concen: 21.881 ug/l

RT: 11.42 min Scan# 1015

Delta R.T. -0.01 min

Lab File: VD062467.D

Acq: 20 May 2019 20:25

Instrument :

MSVOA_D

ClientSampleId :

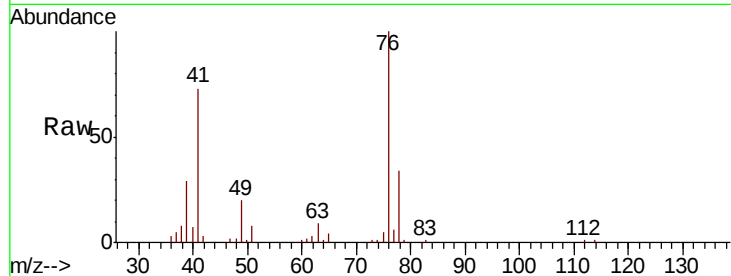
VD0520SBS01

Tot Ion: 76 Resp: 152426

Ion Ratio Lower Upper

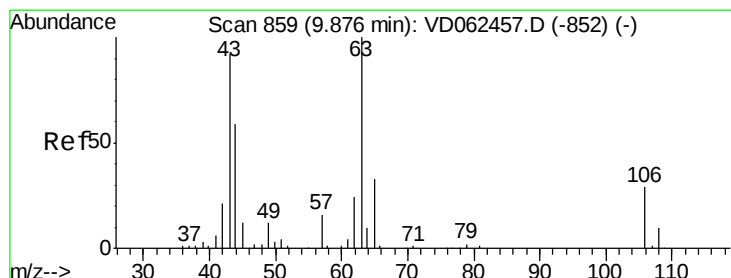
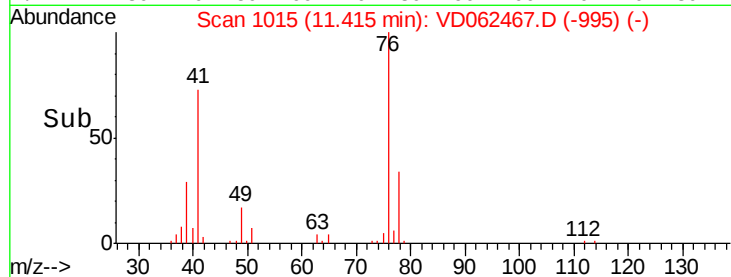
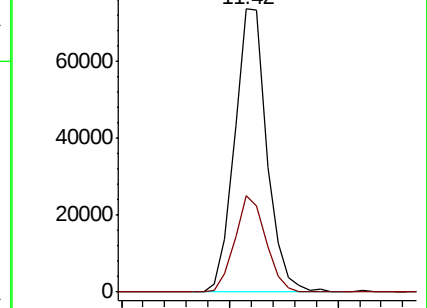
76 100

78 34.2 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: 111.380 ug/l

RT: 9.87 min Scan# 858

Delta R.T. -0.01 min

Lab File: VD062467.D

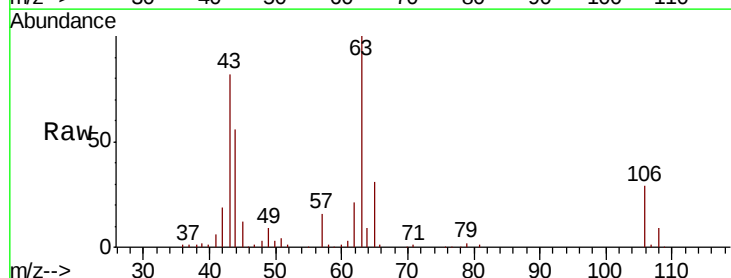
Acq: 20 May 2019 20:25

Tgt Ion: 63 Resp: 277715

Ion Ratio Lower Upper

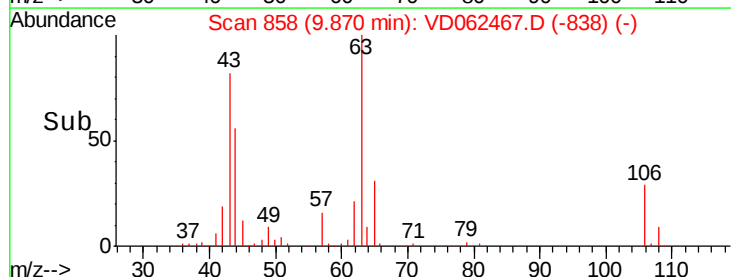
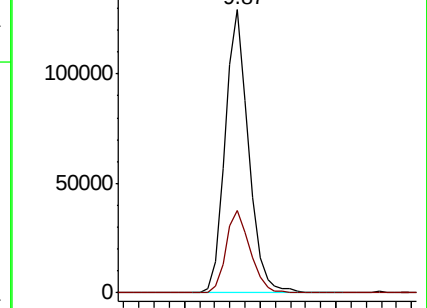
63 100

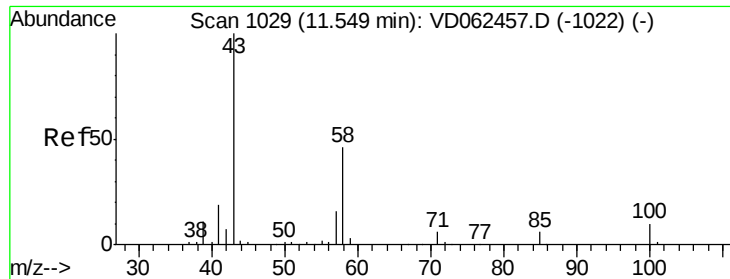
106 29.2 22.6 34.0



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): VDC

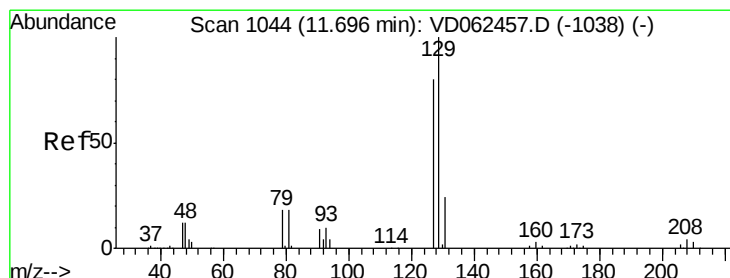
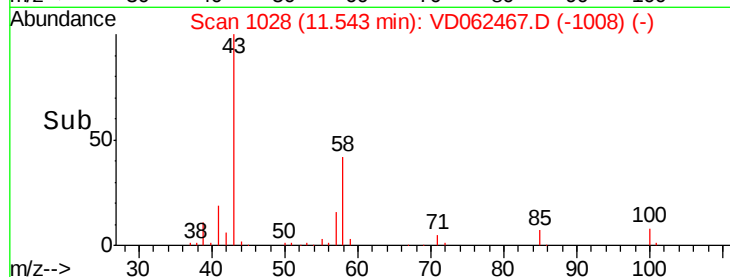
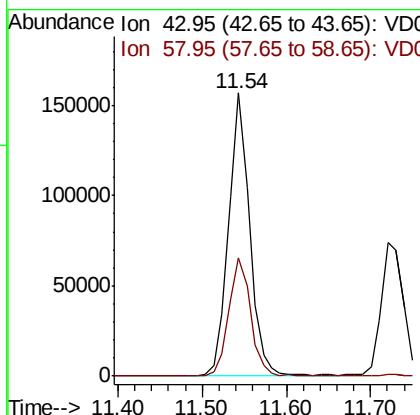
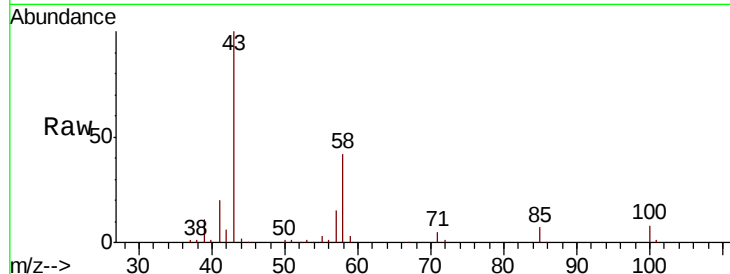




#59
2-Hexanone
Concen: 111.195 ug/l
RT: 11.54 min Scan# 1028
Delta R.T. -0.01 min
Lab File: VD062467.D
Acq: 20 May 2019 20:25

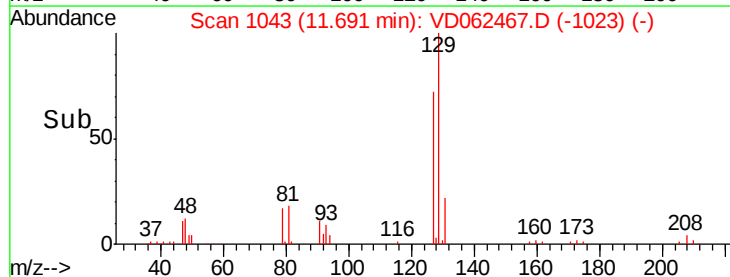
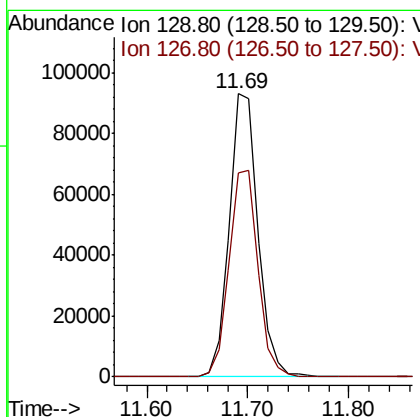
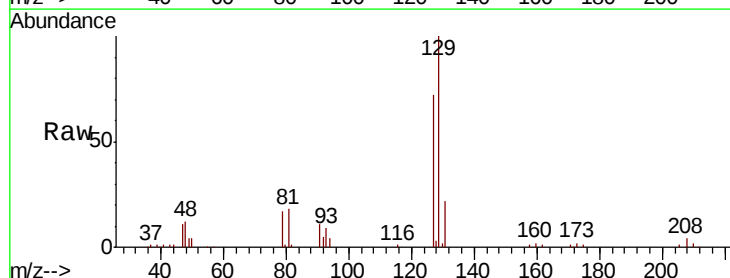
Instrument :
MSVOA_D
ClientSampleId :
VD0520SBS01

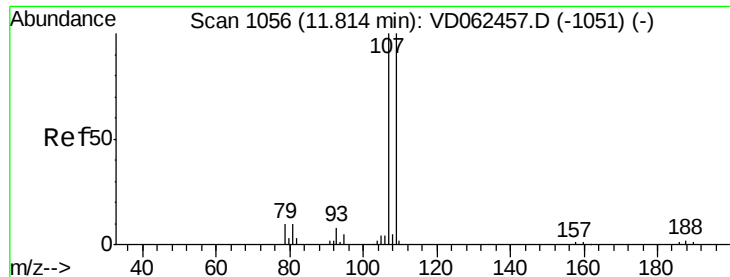
Tot Ion: 43 Resp: 274606
Ion Ratio Lower Upper
43 100
58 41.9 25.4 76.4



#60
Dibromochloromethane
Concen: 20.919 ug/l
RT: 11.69 min Scan# 1043
Delta R.T. -0.01 min
Lab File: VD062467.D
Acq: 20 May 2019 20:25

Tgt Ion:129 Resp: 182503
Ion Ratio Lower Upper
129 100
127 72.1 38.0 113.9

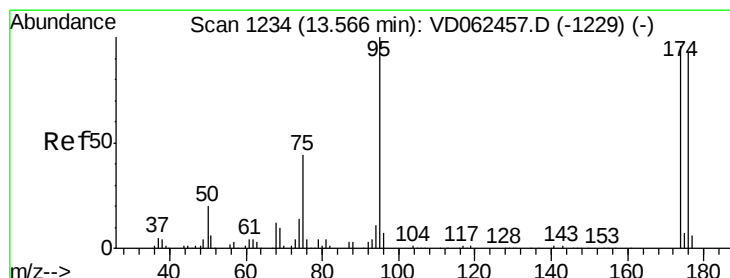
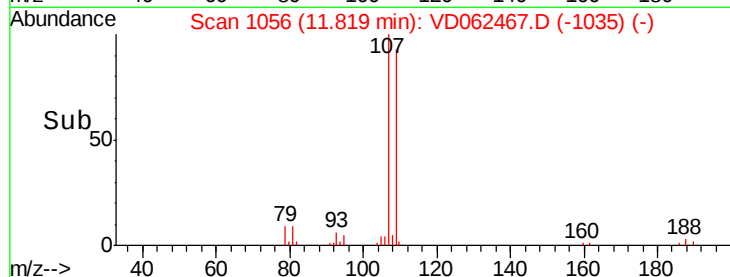
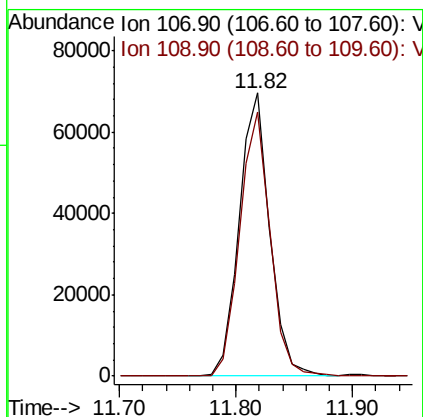
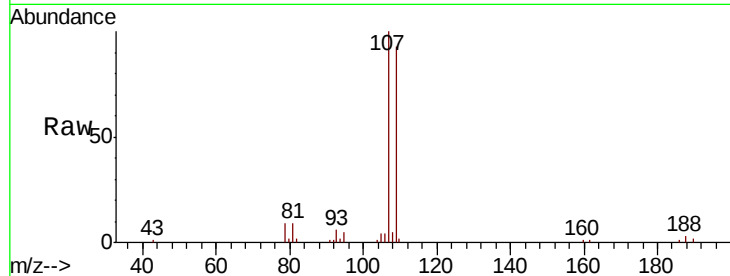




#61
 1,2-Dibromoethane
 Concen: 22.482 ug/l
 RT: 11.82 min Scan# 1056
 Delta R.T. 0.00 min
 Lab File: VD062467.D
 Acq: 20 May 2019 20:25

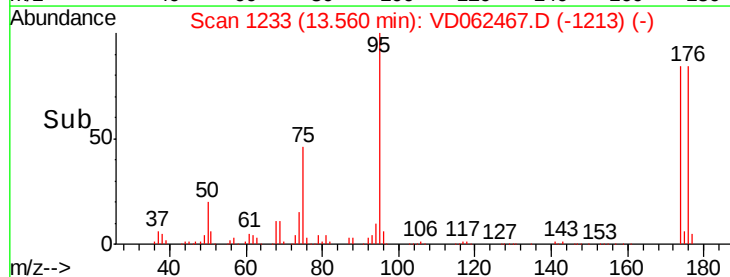
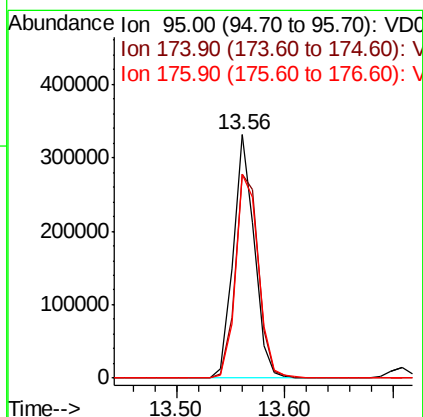
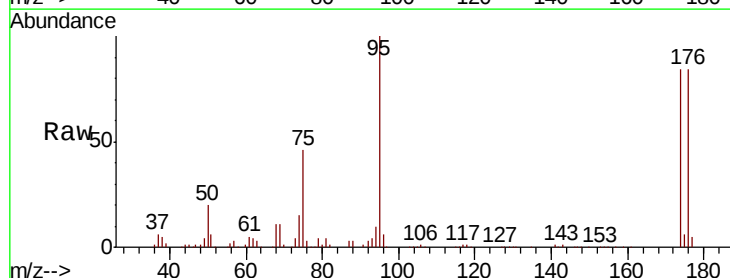
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0520SBS01

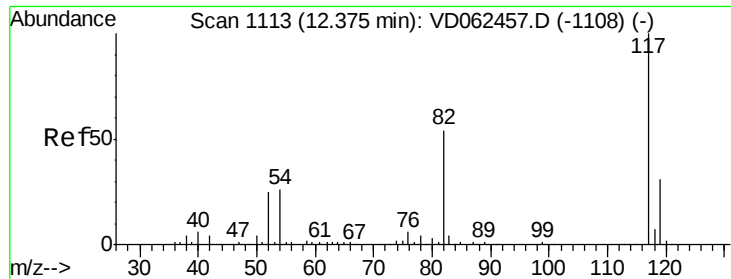
Tot Ion:107 Resp: 125846
 Ion Ratio Lower Upper
 107 100
 109 93.4 78.3 117.5



#62
 4-Bromofluorobenzene
 Concen: 49.991 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. -0.01 min
 Lab File: VD062467.D
 Acq: 20 May 2019 20:25

Tgt Ion: 95 Resp: 450671
 Ion Ratio Lower Upper
 95 100
 174 83.6 0.0 181.8
 176 83.8 0.0 174.4

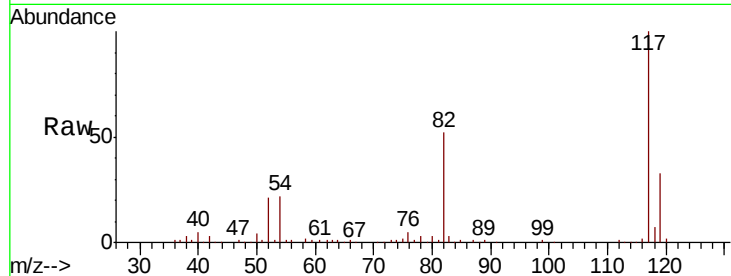




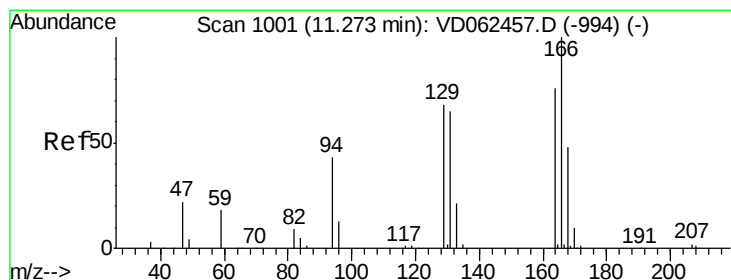
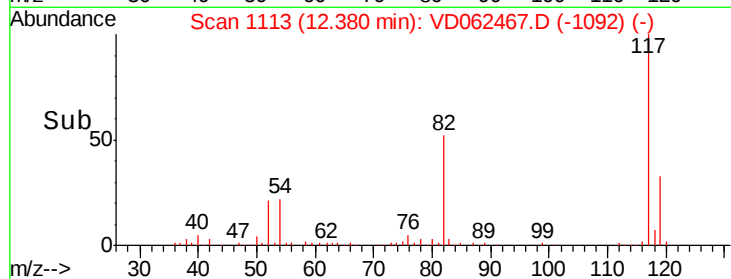
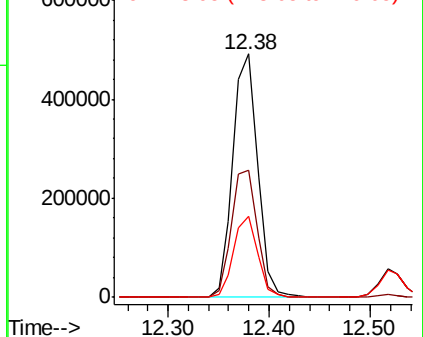
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. 0.00 min
Lab File: VD062467.D
Acq: 20 May 2019 20:25

Instrument :
MSVOA_D
ClientSampleId :
VD0520SBS01

Tot Ion:117 Resp: 840959
Ion Ratio Lower Upper
117 100
82 52.0 36.2 54.2
119 33.4 26.2 39.4

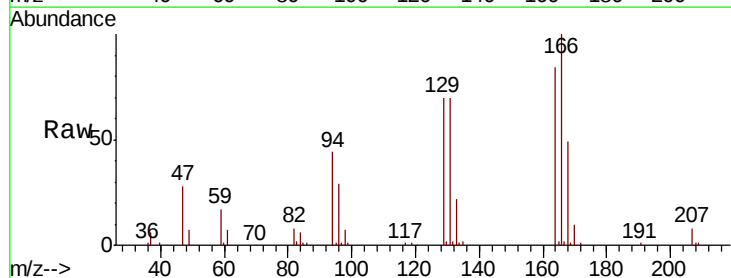


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

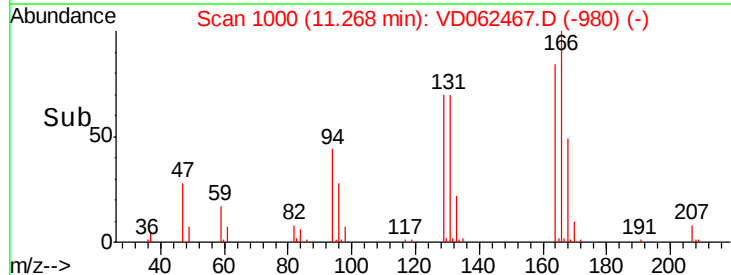
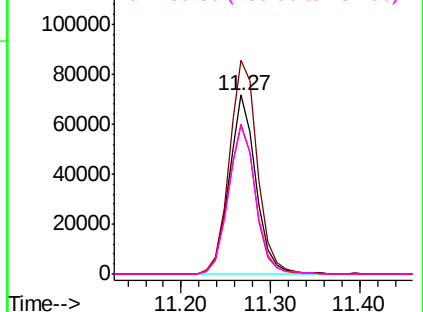


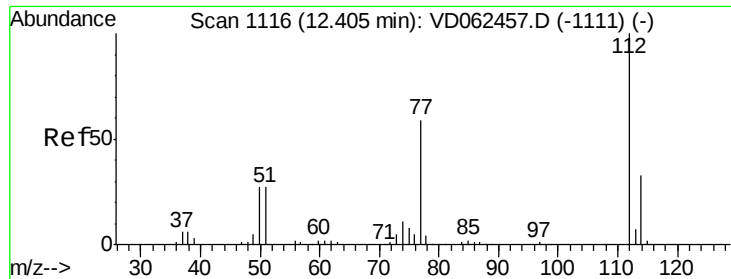
#64
Tetrachloroethene
Concen: 21.339 ug/l
RT: 11.27 min Scan# 1000
Delta R.T. -0.01 min
Lab File: VD062467.D
Acq: 20 May 2019 20:25

Tgt Ion:164 Resp: 150254
Ion Ratio Lower Upper
164 100
166 119.4 101.5 152.3
129 83.5 74.6 112.0
131 83.3 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

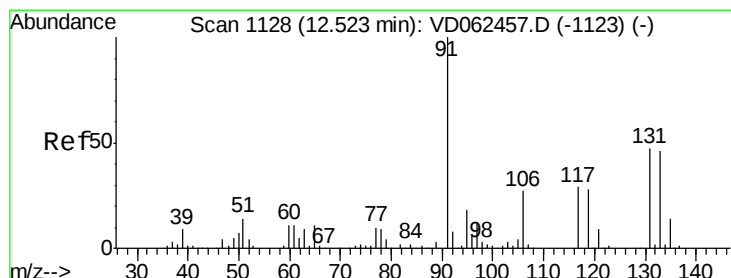
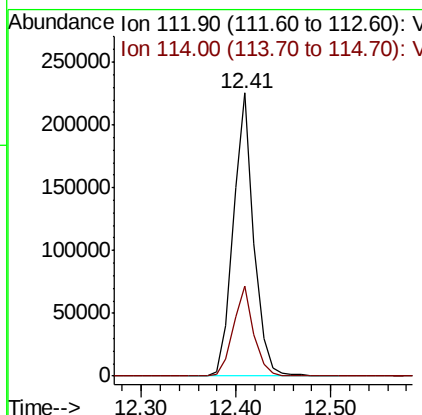
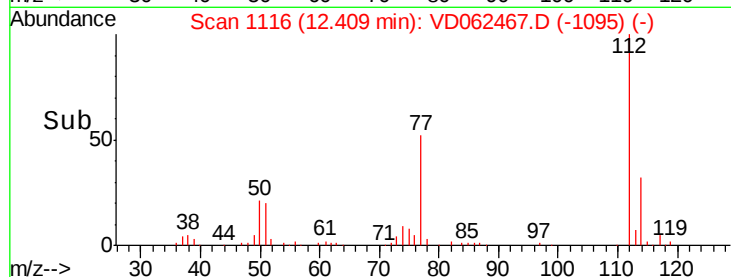
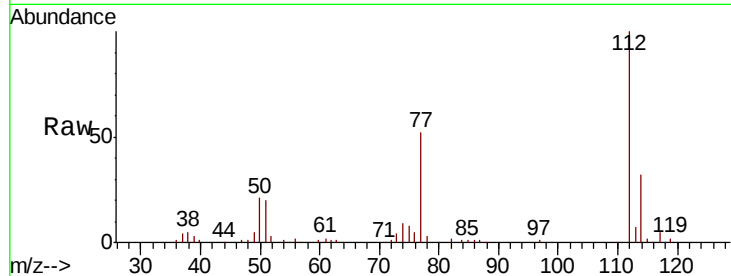




#65
Chlorobenzene
Concen: 20.711 ug/l
RT: 12.41 min Scan# 1116
Delta R.T. 0.00 min
Lab File: VD062467.D
Acq: 20 May 2019 20:25

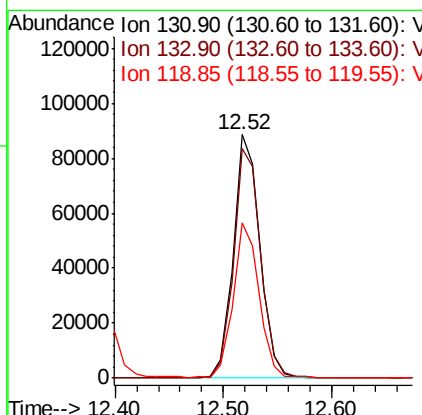
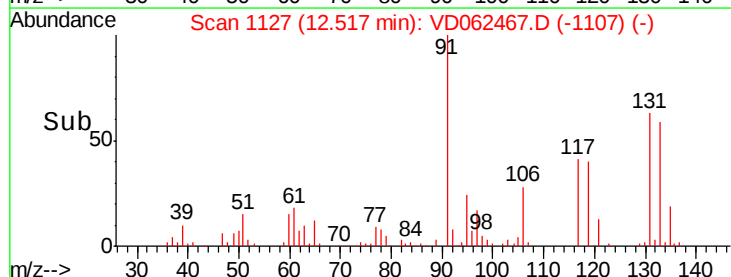
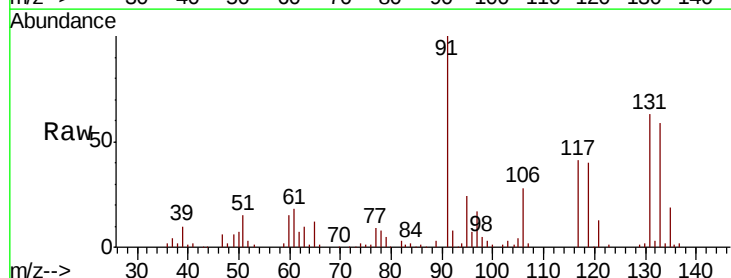
Instrument :
MSVOA_D
ClientSampleId :
VD0520SBS01

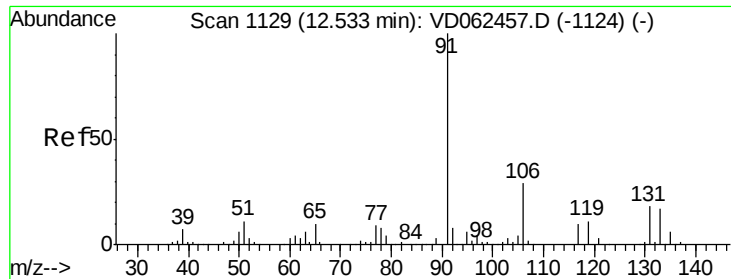
Tot Ion:112 Resp: 334940
Ion Ratio Lower Upper
112 100
114 31.8 25.8 38.8



#66
1,1,1,2-Tetrachloroethane
Concen: 20.181 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. -0.01 min
Lab File: VD062467.D
Acq: 20 May 2019 20:25

Tgt Ion:131 Resp: 150653
Ion Ratio Lower Upper
131 100
133 94.3 48.6 145.8
119 63.6 34.7 104.1

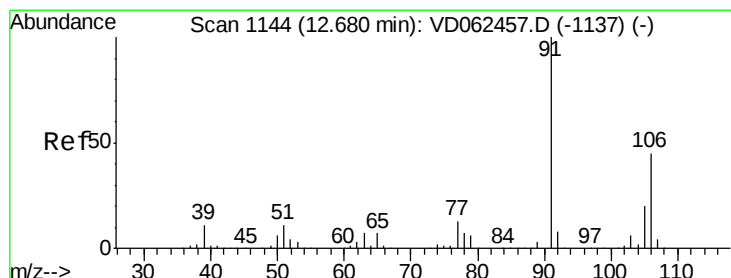
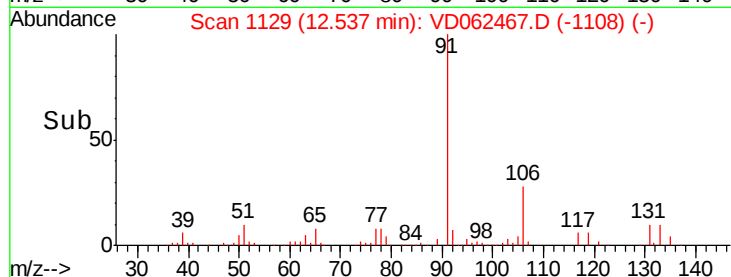
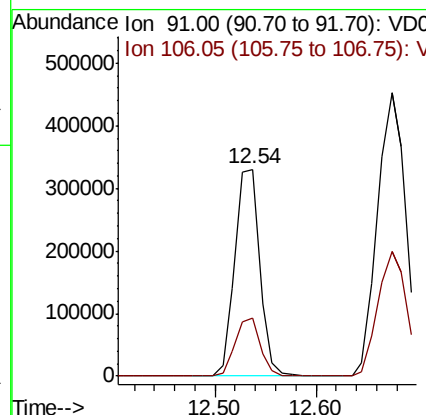
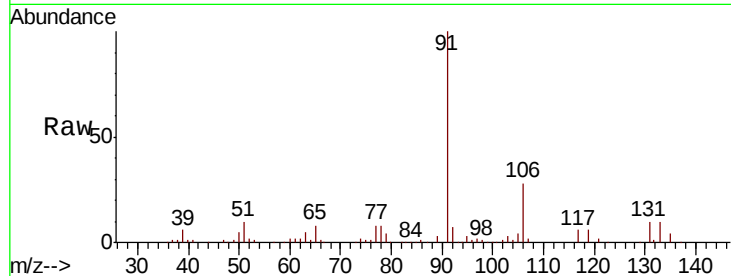




#67
Ethyl Benzene
Concen: 20.441 ug/l
RT: 12.54 min Scan# 1129
Delta R.T. 0.00 min
Lab File: VD062467.D
Acq: 20 May 2019 20:25

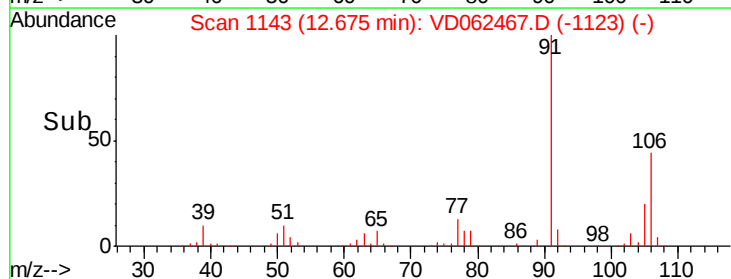
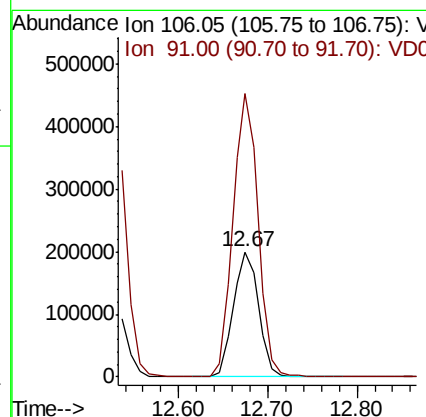
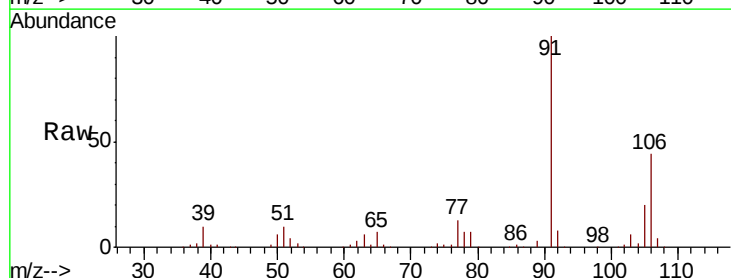
Instrument :
MSVOA_D
ClientSampleId :
VD0520SBS01

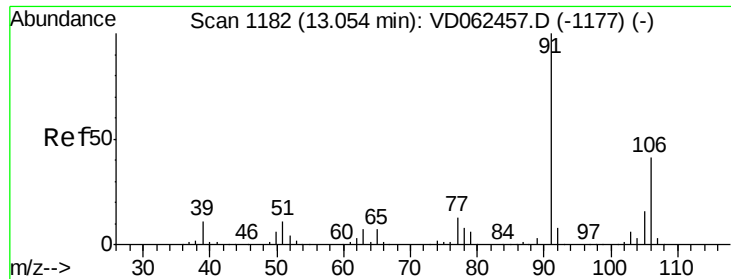
Tot Ion: 91 Resp: 569398
Ion Ratio Lower Upper
91 100
106 27.8 24.7 37.1



#68
m/p-Xylenes
Concen: 39.832 ug/l
RT: 12.67 min Scan# 1143
Delta R.T. -0.01 min
Lab File: VD062467.D
Acq: 20 May 2019 20:25

Tgt Ion: 106 Resp: 398279
Ion Ratio Lower Upper
106 100
91 226.7 164.0 246.0

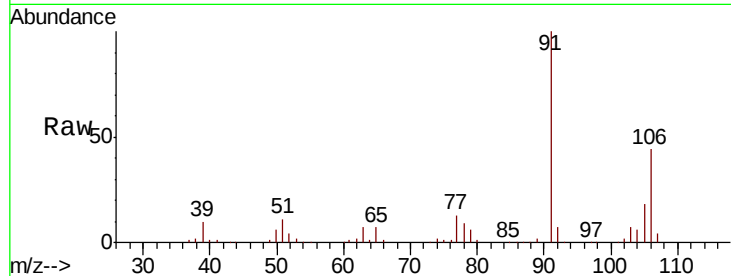




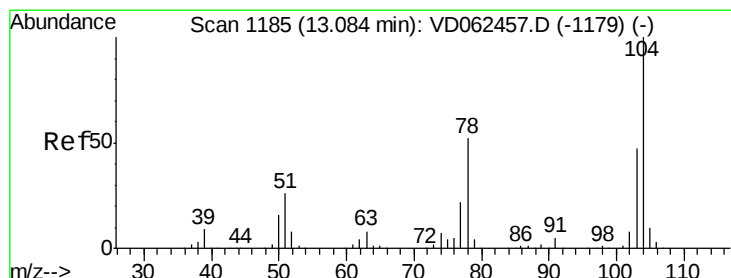
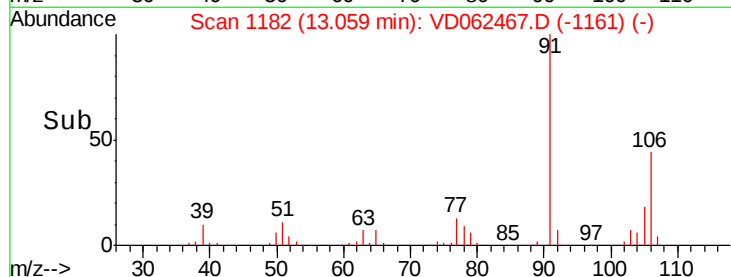
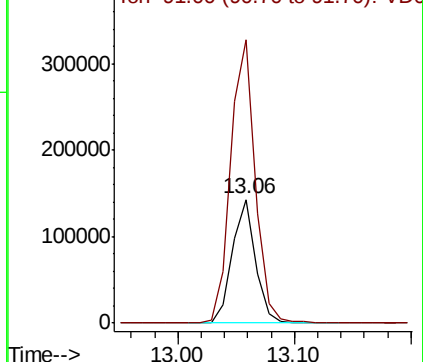
#69
o-Xylene
Concen: 20.968 ug/l
RT: 13.06 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VD062467.D
Acq: 20 May 2019 20:25

Instrument :
MSVOA_D
ClientSampleId :
VD0520SBS01

Tot Ion:106 Resp: 197819
Ion Ratio Lower Upper
106 100
91 229.2 106.7 319.9

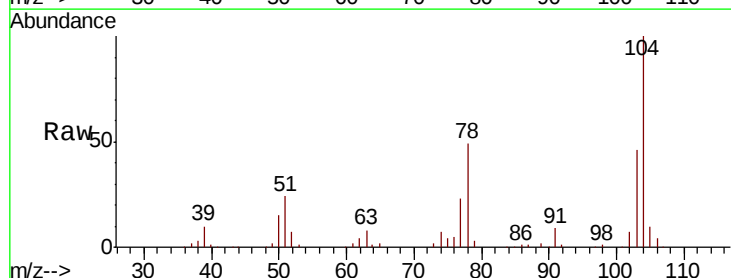


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

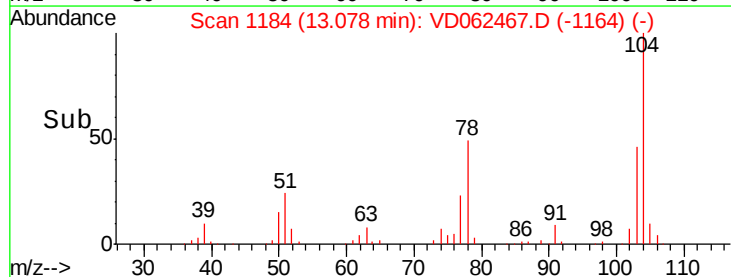
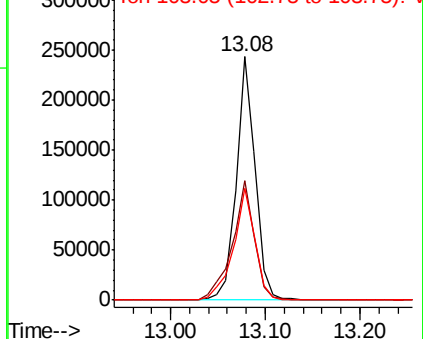


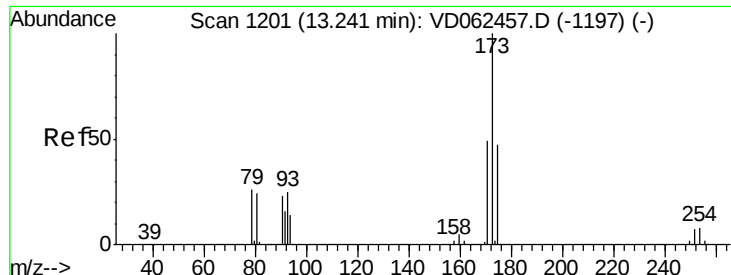
#70
Styrene
Concen: 20.831 ug/l
RT: 13.08 min Scan# 1184
Delta R.T. -0.01 min
Lab File: VD062467.D
Acq: 20 May 2019 20:25

Tgt Ion:104 Resp: 334317
Ion Ratio Lower Upper
104 100
78 49.2 35.4 53.2
103 45.7 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: 22.071 ug/l

RT: 13.25 min Scan# 1201

Delta R.T. 0.00 min

Lab File: VD062467.D

Acq: 20 May 2019 20:25

Instrument :

MSVOA_D

ClientSampleId :

VD0520SBS01

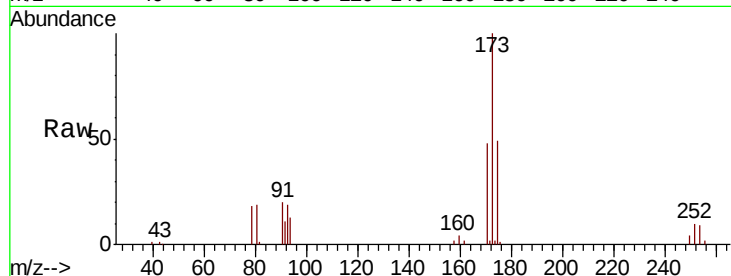
Tot Ion:173 Resp: 109418

Ion Ratio Lower Upper

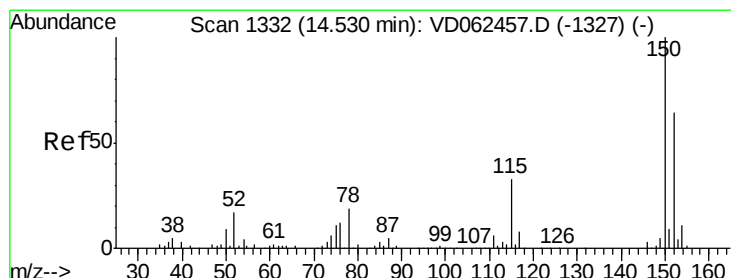
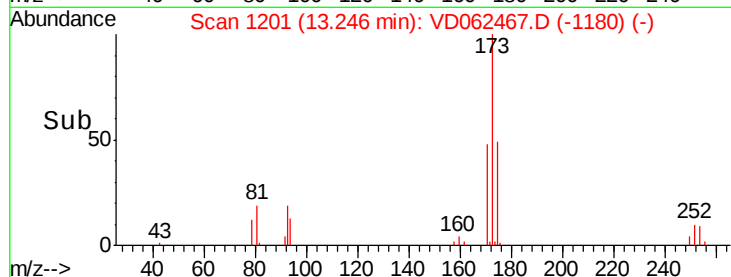
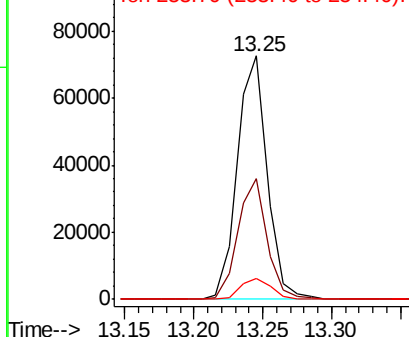
173 100

175 49.3 24.4 73.4

254 8.8 5.4 8.2#



Abundance Ion 172.80 (172.50 to 173.50): V
Ion 174.80 (174.50 to 175.50): V
Ion 253.70 (253.40 to 254.40): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1331

Delta R.T. -0.01 min

Lab File: VD062467.D

Acq: 20 May 2019 20:25

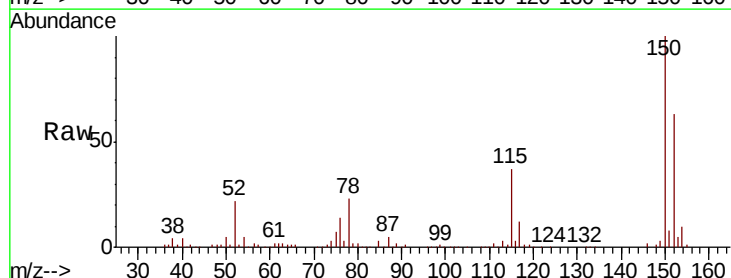
Tgt Ion:152 Resp: 426858

Ion Ratio Lower Upper

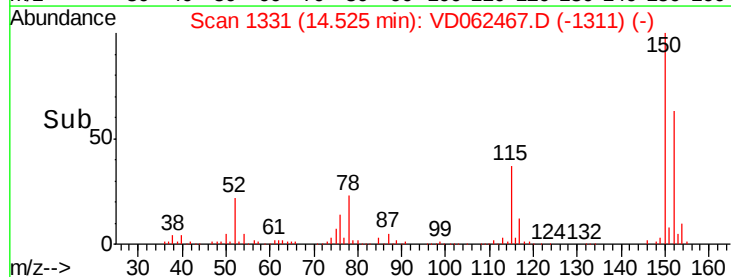
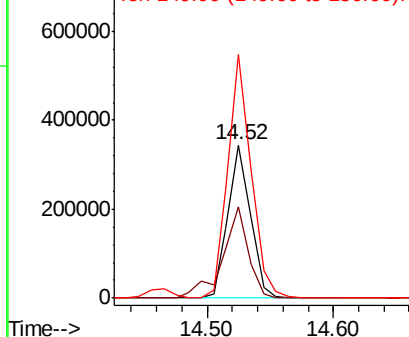
152 100

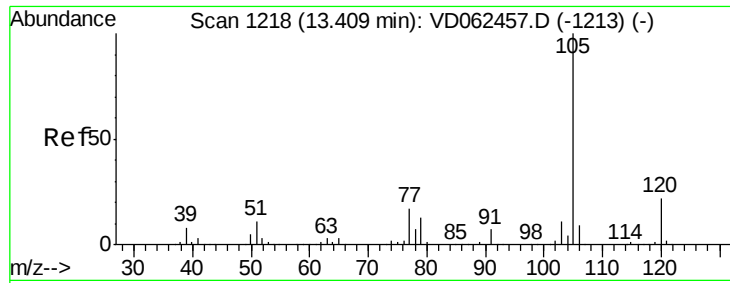
115 59.6 30.9 92.7

150 159.0 0.0 314.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 22.495 ug/l

RT: 13.41 min Scan# 1218

Delta R.T. 0.00 min

Lab File: VD062467.D

Acq: 20 May 2019 20:25

Instrument :

MSVOA_D

ClientSampleId :

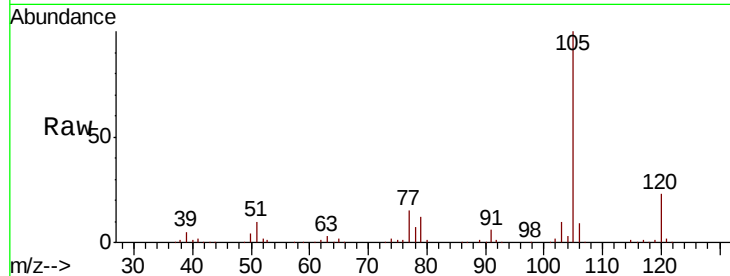
VD0520SBS01

Tot Ion:105 Resp: 605252

Ion Ratio Lower Upper

105 100

120 22.7 12.0 36.1



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

13.41

400000

300000

200000

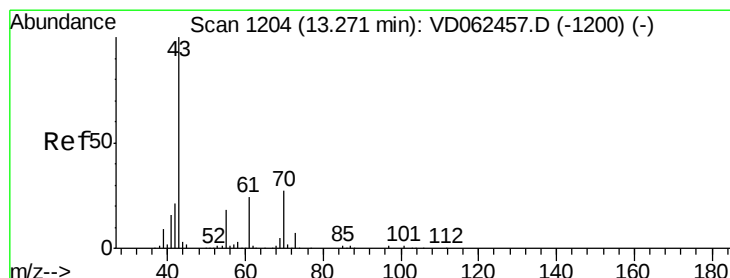
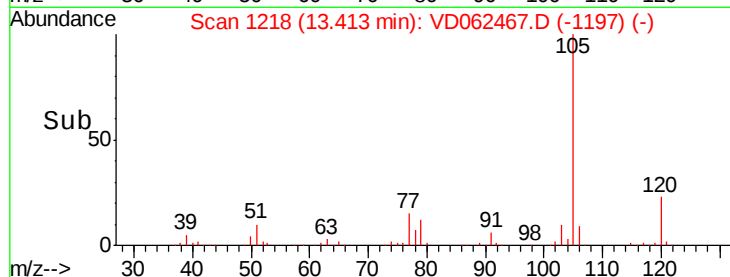
100000

0

13.40

13.50

Time-->



#74

N-ethyl acetate

Concen: 24.517 ug/l

RT: 13.28 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VD062467.D

Acq: 20 May 2019 20:25

Tgt Ion: 43 Resp: 162928

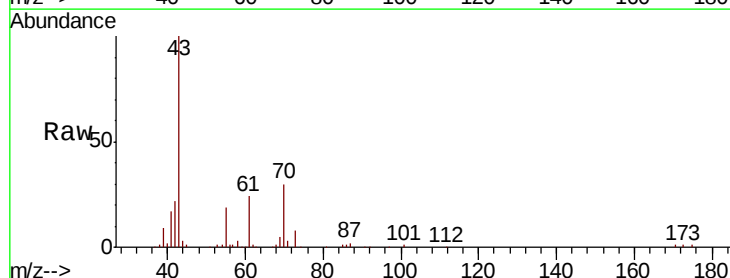
Ion Ratio Lower Upper

43 100

70 30.1 24.2 36.4

55 18.6 16.0 24.0

61 24.5 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

13.28

150000

100000

50000

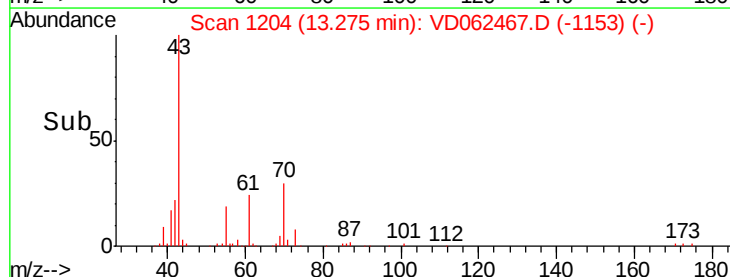
0

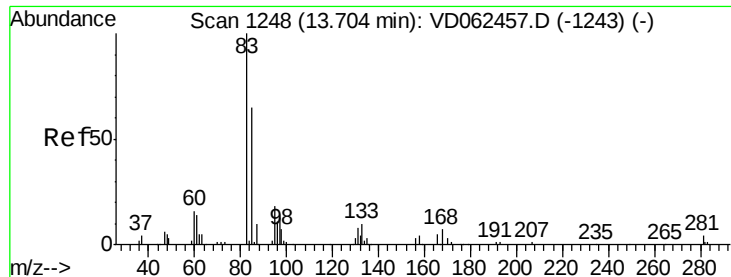
13.20

13.30

13.40

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 22.436 ug/l

RT: 13.71 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VD062467.D

Acq: 20 May 2019 20:25

Instrument :

MSVOA_D

ClientSampleId :

VD0520SBS01

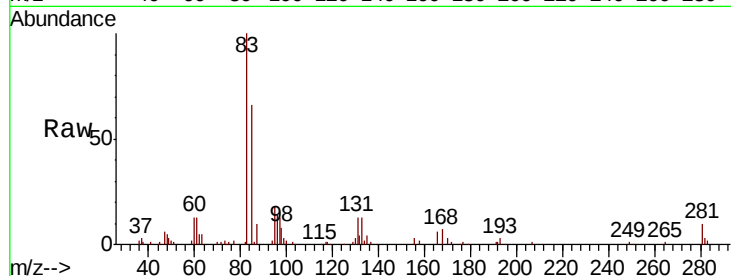
Tot Ion: 83 Resp: 108908

Ion Ratio Lower Upper

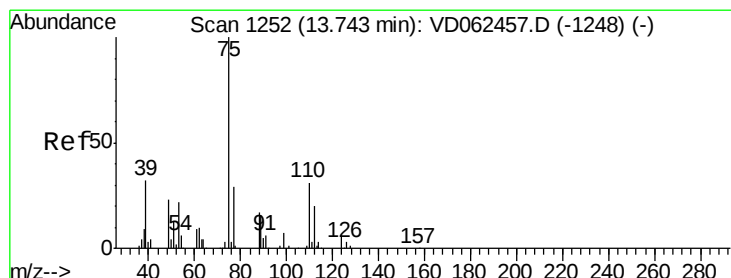
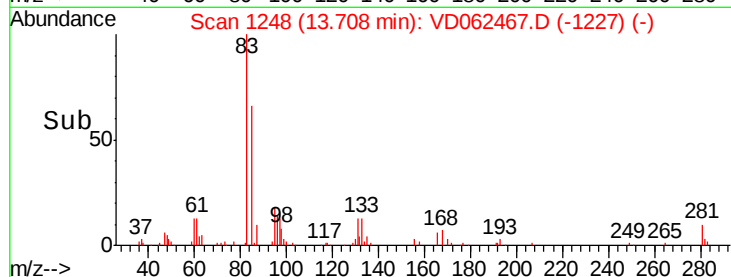
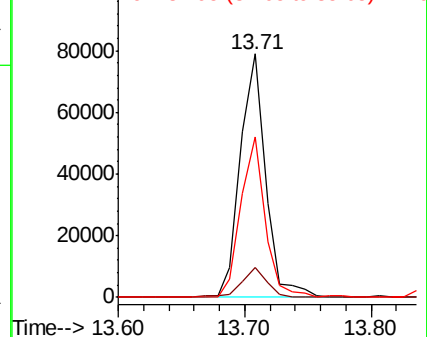
83 100

131 12.5 5.0 14.9

85 66.1 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: 23.047 ug/l

RT: 13.74 min Scan# 1251

Delta R.T. -0.01 min

Lab File: VD062467.D

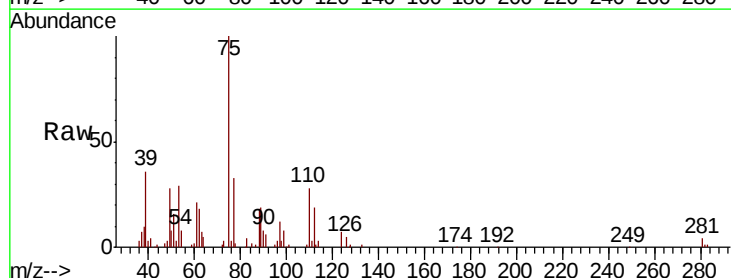
Acq: 20 May 2019 20:25

Tgt Ion: 75 Resp: 115880

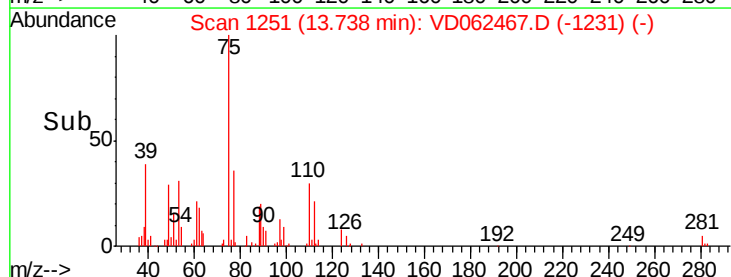
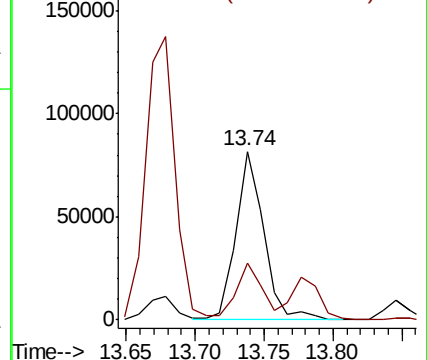
Ion Ratio Lower Upper

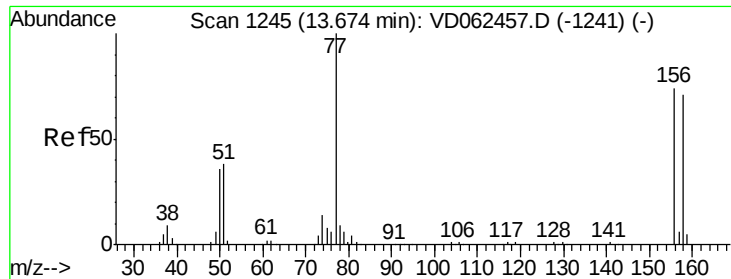
75 100

77 33.4 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: 22.070 ug/l

RT: 13.68 min Scan# 1245

Delta R.T. 0.00 min

Lab File: VD062467.D

Acq: 20 May 2019 20:25

Instrument :

MSVOA_D

ClientSampleId :

VD0520SBS01

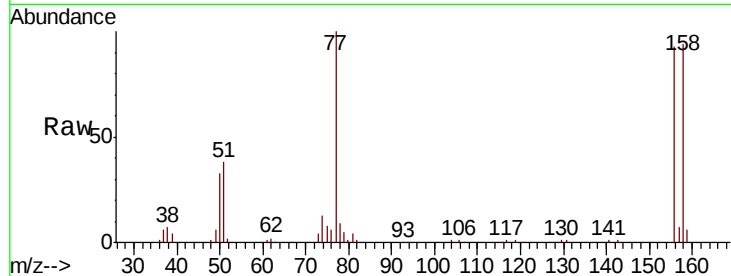
Tot Ion:156 Resp: 168452

Ion Ratio Lower Upper

156 100

77 107.6 53.1 159.4

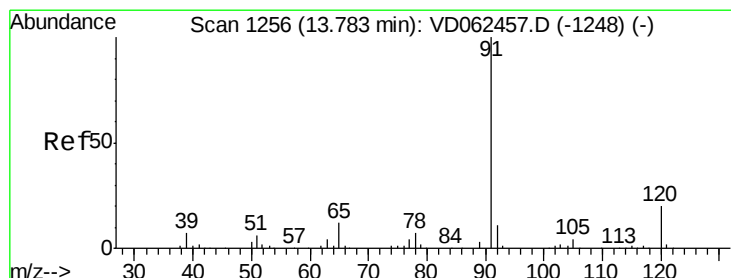
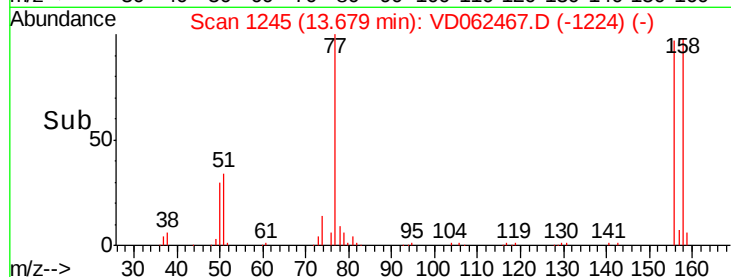
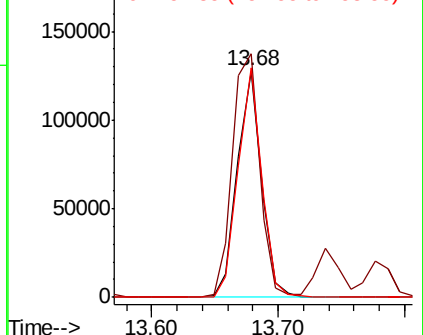
158 101.5 49.4 148.0



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 22.580 ug/l

RT: 13.78 min Scan# 1255

Delta R.T. -0.01 min

Lab File: VD062467.D

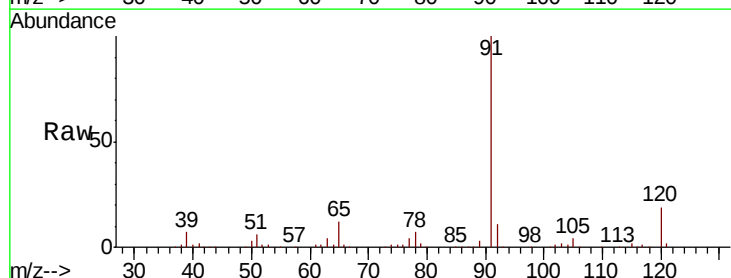
Acq: 20 May 2019 20:25

Tgt Ion: 91 Resp: 703758

Ion Ratio Lower Upper

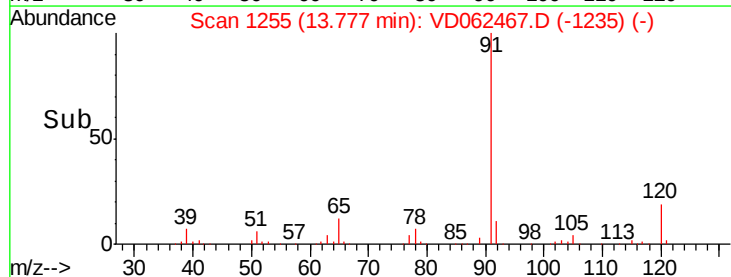
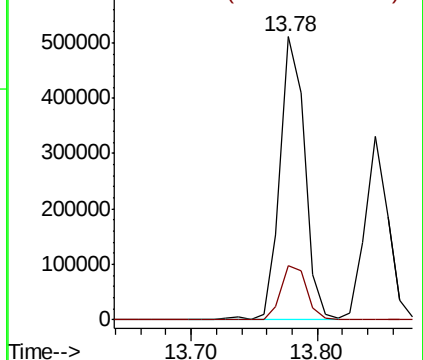
91 100

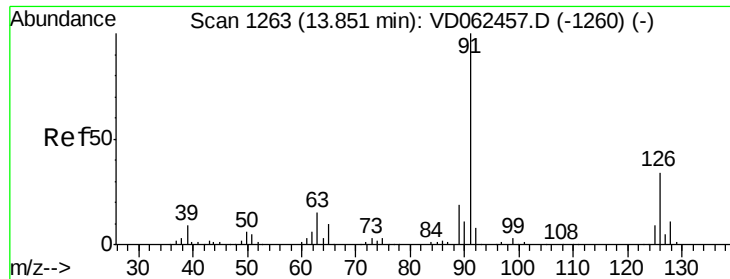
120 19.4 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 22.150 ug/l

RT: 13.85 min Scan# 1262

Delta R.T. -0.01 min

Lab File: VD062467.D

Acq: 20 May 2019 20:25

Instrument :

MSVOA_D

ClientSampleId :

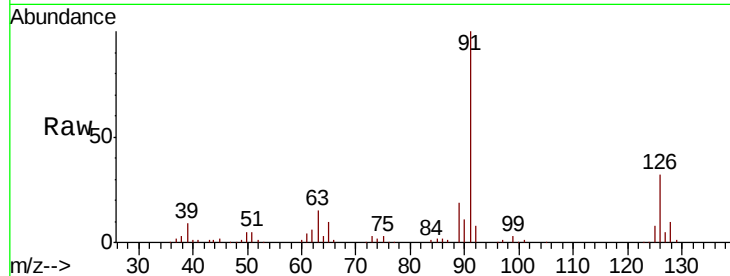
VD0520SBS01

Tot Ion: 91 Resp: 418940

Ion Ratio Lower Upper

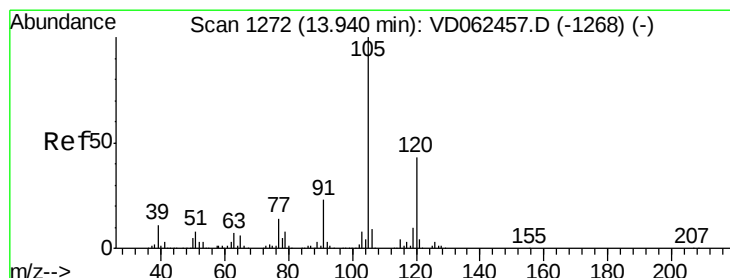
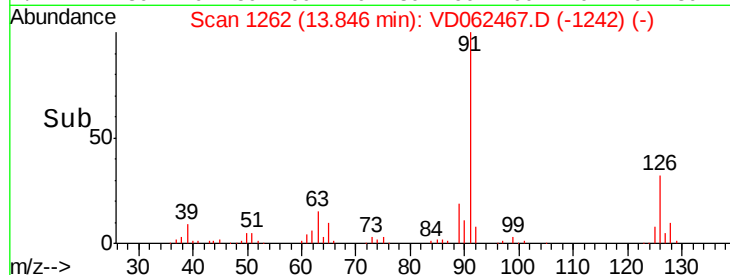
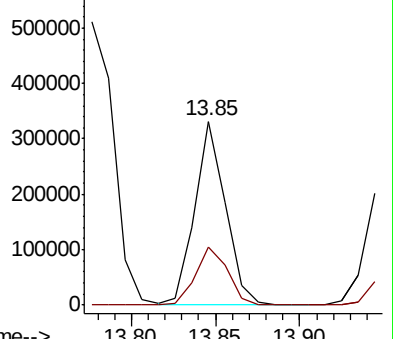
91 100

126 31.7 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: 20.845 ug/l

RT: 13.94 min Scan# 1272

Delta R.T. 0.00 min

Lab File: VD062467.D

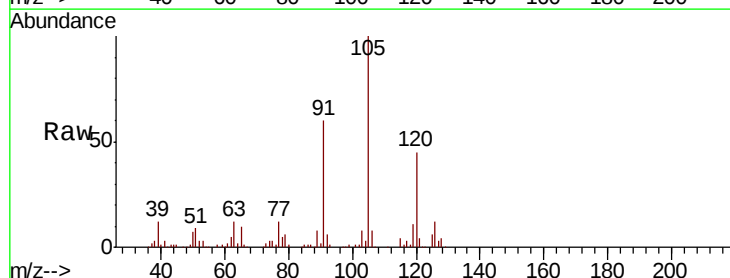
Acq: 20 May 2019 20:25

Tgt Ion: 105 Resp: 485627

Ion Ratio Lower Upper

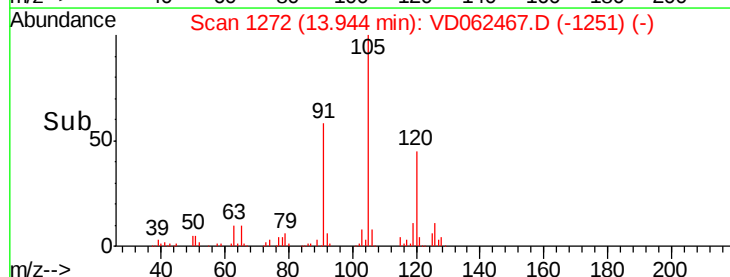
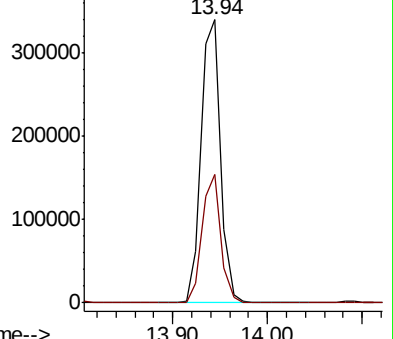
105 100

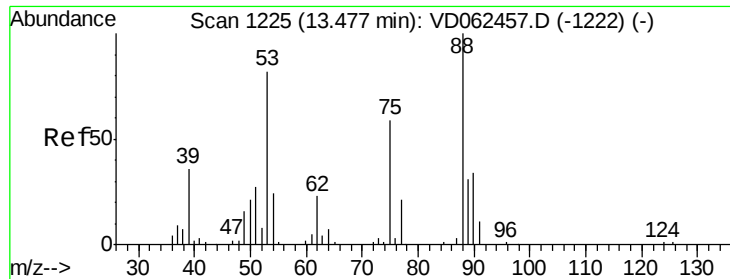
120 45.3 24.0 72.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#81

trans-1,4-Dichloro-2-butene

Concen: 21.425 ug/l

RT: 13.48 min Scan# 1225

Delta R.T. 0.00 min

Lab File: VD062467.D

Acq: 20 May 2019 20:25

Instrument :

MSVOA_D

ClientSampleId :

VD0520SBS01

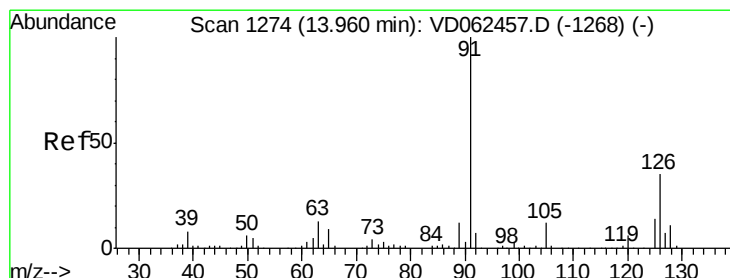
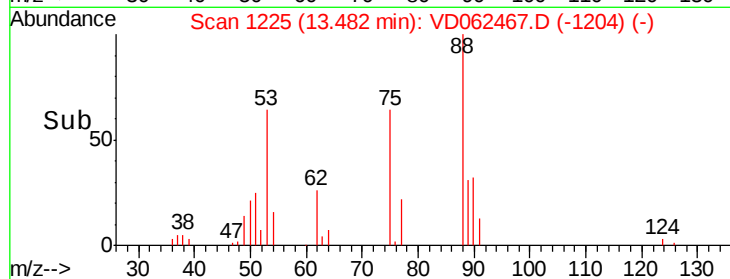
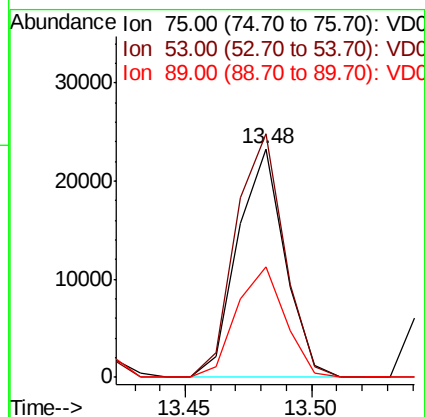
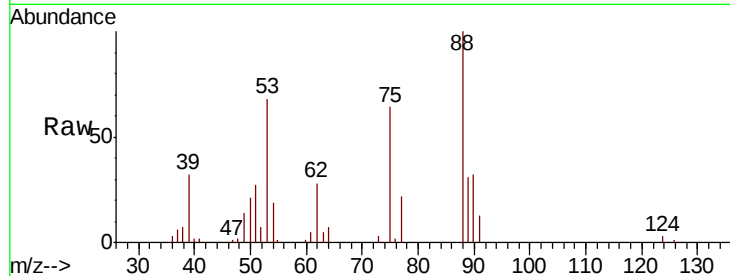
Tot Ion: 75 Resp: 30380

Ion Ratio Lower Upper

75 100

53 106.5 65.8 98.8#

89 48.3 35.0 52.6



#82

4-Chlorotoluene

Concen: 21.677 ug/l

RT: 13.95 min Scan# 1273

Delta R.T. -0.01 min

Lab File: VD062467.D

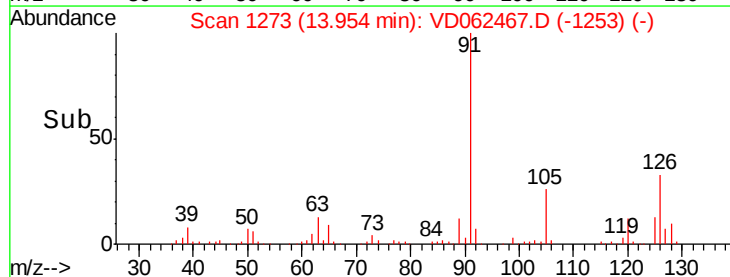
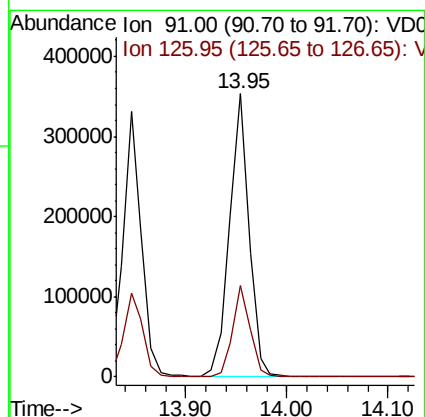
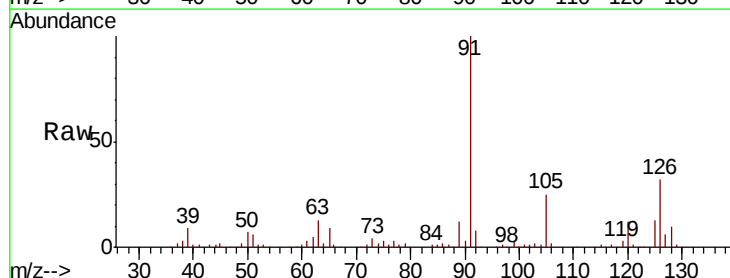
Acq: 20 May 2019 20:25

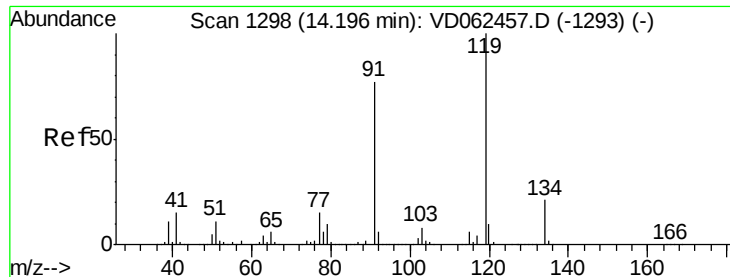
Tgt Ion: 91 Resp: 472177

Ion Ratio Lower Upper

91 100

126 32.2 19.1 57.5

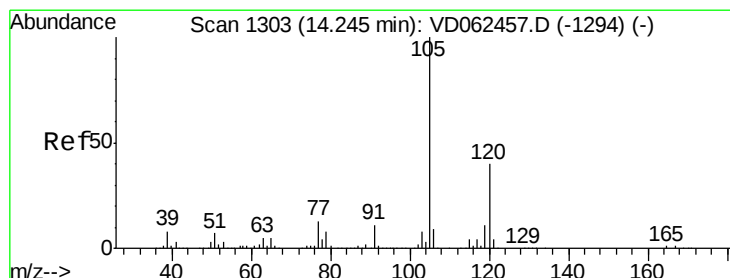
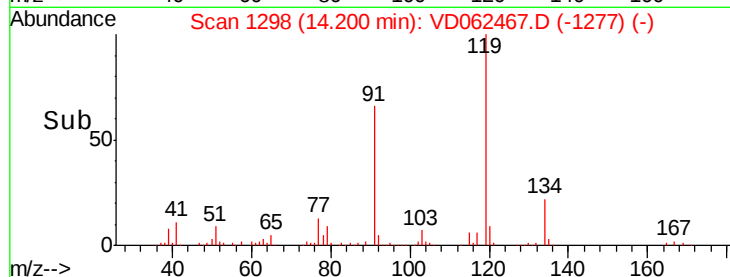
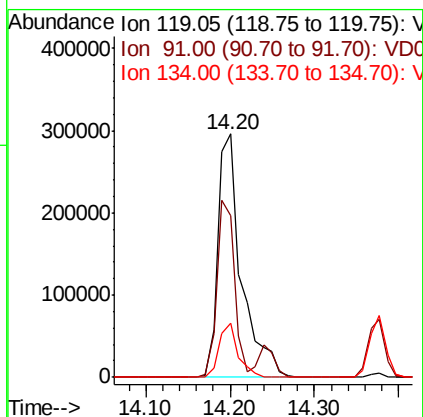
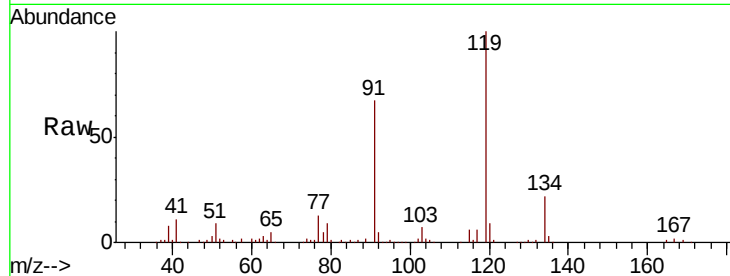




#83
tert-Butylbenzene
Concen: 22.151 ug/l
RT: 14.20 min Scan# 1298
Delta R.T. 0.00 min
Lab File: VD062467.D
Acq: 20 May 2019 20:25

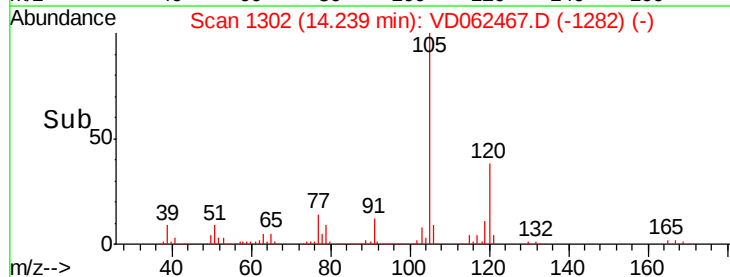
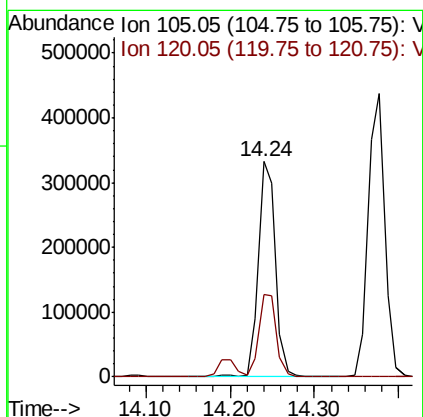
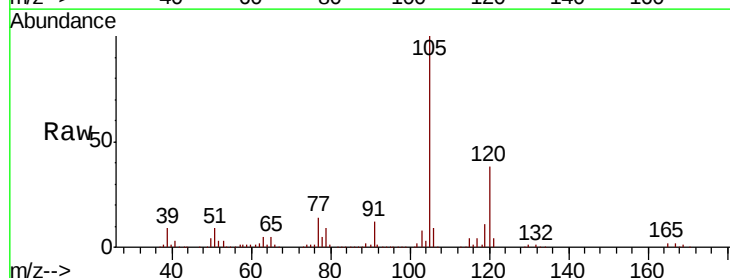
Instrument :
MSVOA_D
ClientSampleId :
VD0520SBS01

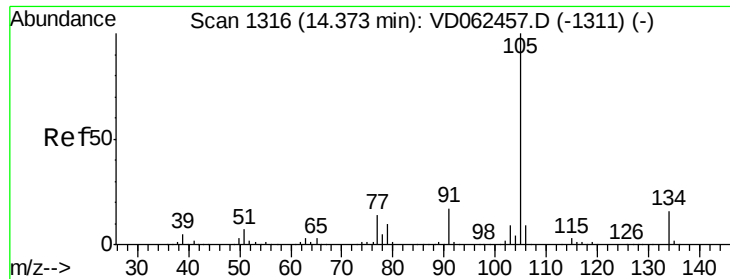
Tot Ion:119 Resp: 572422
Ion Ratio Lower Upper
119 100
91 66.7 34.2 102.6
134 22.5 12.0 36.0



#84
1,2,4-Trimethylbenzene
Concen: 20.037 ug/l
RT: 14.24 min Scan# 1302
Delta R.T. -0.01 min
Lab File: VD062467.D
Acq: 20 May 2019 20:25

Tgt Ion:105 Resp: 478312
Ion Ratio Lower Upper
105 100
120 38.1 23.1 69.2





#85

sec-Butylbenzene

Concen: 22.312 ug/l

RT: 14.38 min Scan# 1316

Delta R.T. 0.00 min

Lab File: VD062467.D

Acq: 20 May 2019 20:25

Instrument :

MSVOA_D

ClientSampleID :

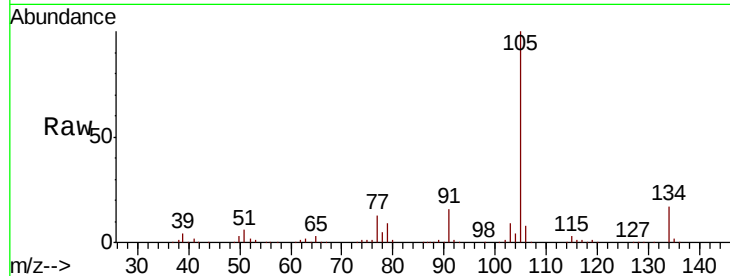
VD0520SBS01

Tot Ion:105 Resp: 601206

Ion Ratio Lower Upper

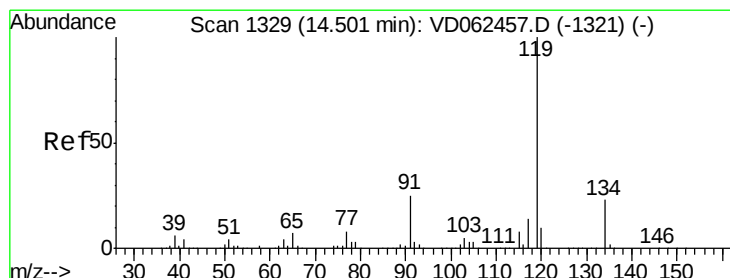
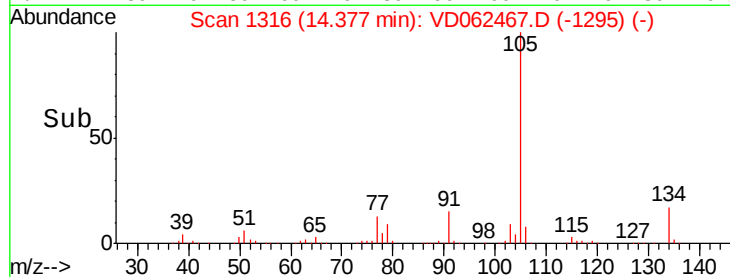
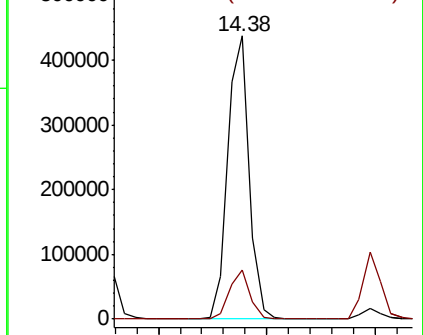
105 100

134 17.3 8.9 26.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V



#86

p-Isopropyltoluene

Concen: 21.856 ug/l

RT: 14.50 min Scan# 1328

Delta R.T. -0.01 min

Lab File: VD062467.D

Acq: 20 May 2019 20:25

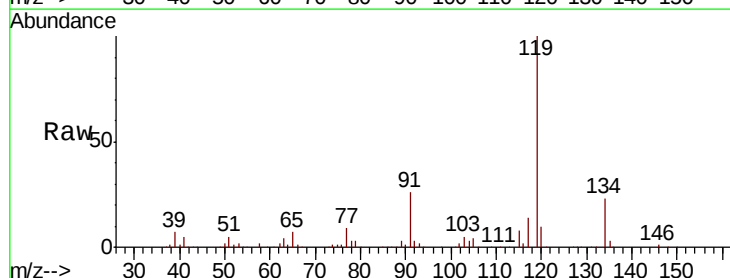
Tgt Ion:119 Resp: 533695

Ion Ratio Lower Upper

119 100

134 22.7 12.8 38.3

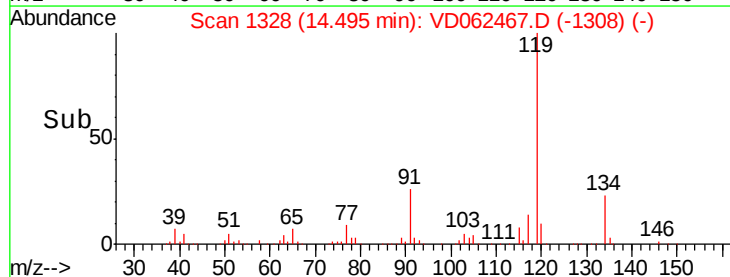
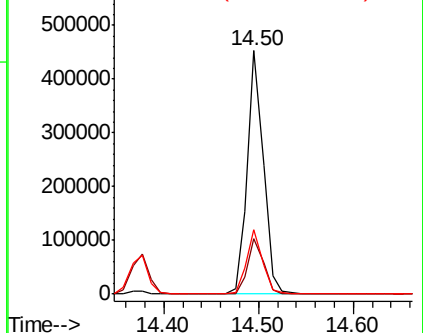
91 26.4 10.7 32.1

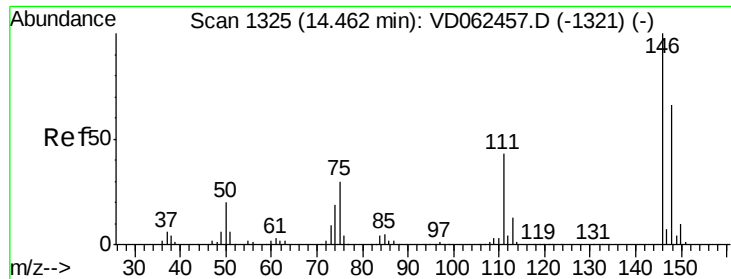


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

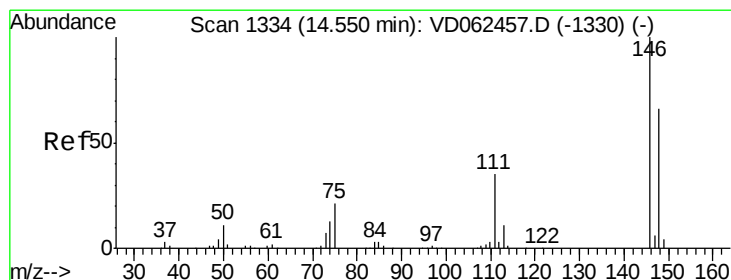
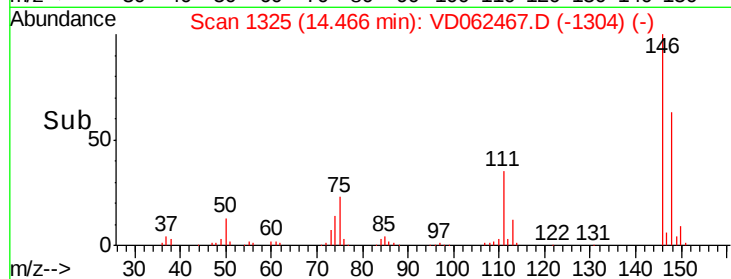
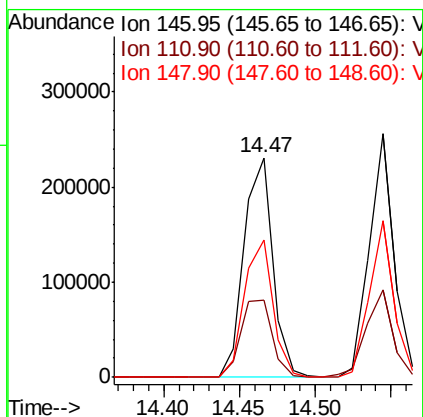
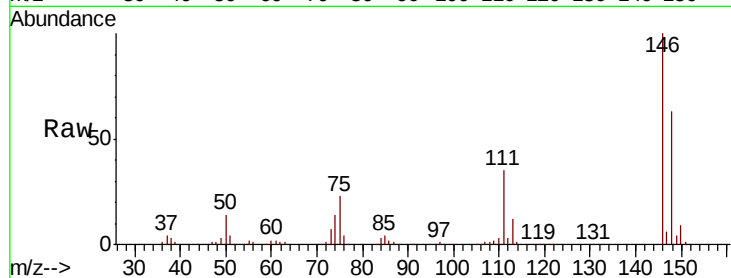




#87
 1,3-Dichlorobenzene
 Concen: 22.757 ug/l
 RT: 14.47 min Scan# 1325
 Delta R.T. 0.00 min
 Lab File: VD062467.D
 Acq: 20 May 2019 20:25

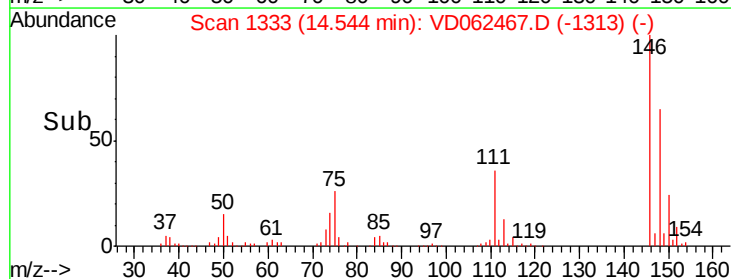
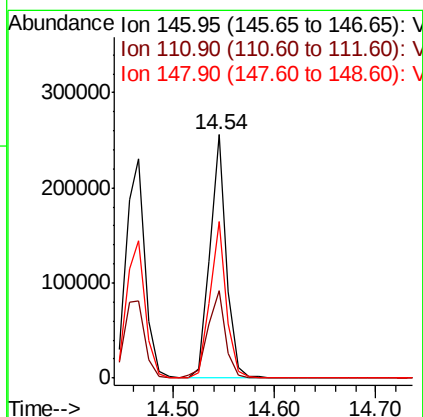
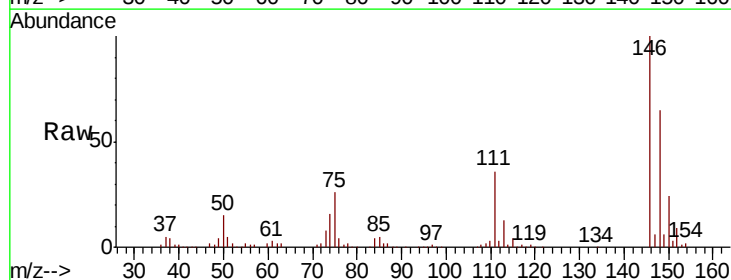
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0520SBS01

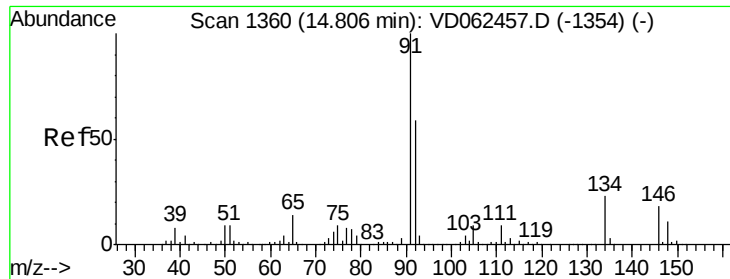
Tot Ion:146 Resp: 306738
 Ion Ratio Lower Upper
 146 100
 111 35.3 20.0 60.0
 148 62.5 31.8 95.4



#88
 1,4-Dichlorobenzene
 Concen: 22.535 ug/l
 RT: 14.54 min Scan# 1333
 Delta R.T. -0.01 min
 Lab File: VD062467.D
 Acq: 20 May 2019 20:25

Tgt Ion:146 Resp: 293110
 Ion Ratio Lower Upper
 146 100
 111 36.2 20.2 60.5
 148 64.5 32.0 96.2





#89

n-Butylbenzene

Concen: 20.853 ug/l

RT: 14.80 min Scan# 1359

Delta R.T. -0.01 min

Lab File: VD062467.D

Acq: 20 May 2019 20:25

Instrument :

MSVOA_D

ClientSampleId :

VD0520SBS01

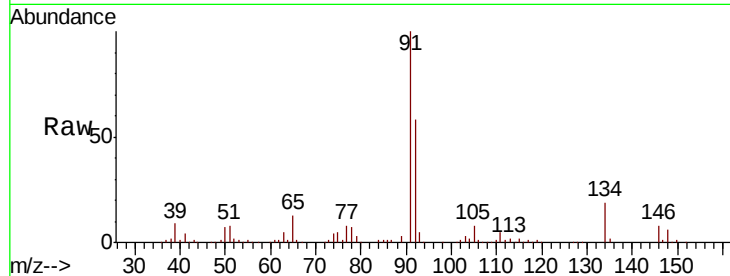
Tot Ion: 91 Resp: 491432

Ion Ratio Lower Upper

91 100

92 57.9 30.3 91.0

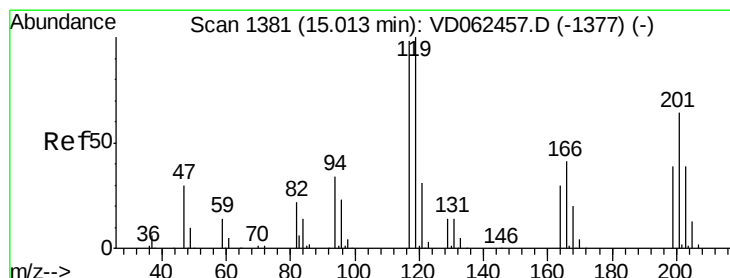
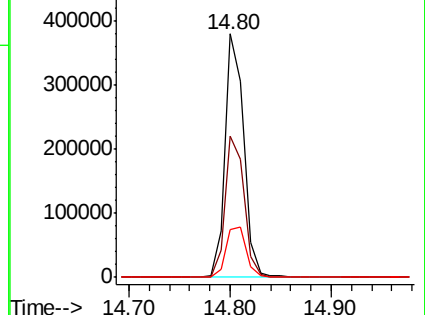
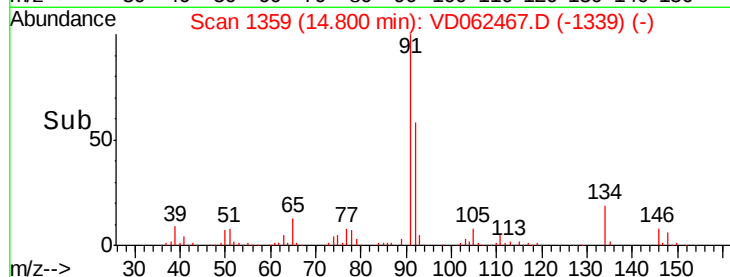
134 19.4 14.5 43.6



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 92.00 (91.70 to 92.70): VDC

Ion 134.10 (133.80 to 134.80): VDC



#90

Hexachloroethane

Concen: 21.135 ug/l

RT: 15.02 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VD062467.D

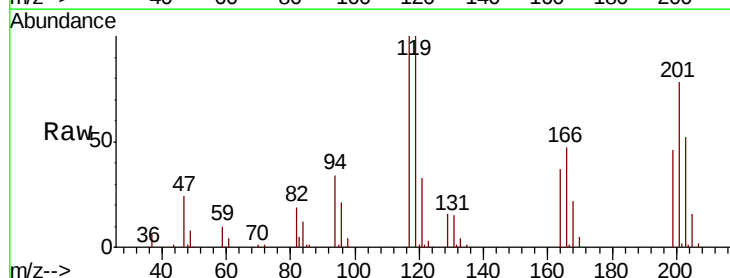
Acq: 20 May 2019 20:25

Tgt Ion: 117 Resp: 142631

Ion Ratio Lower Upper

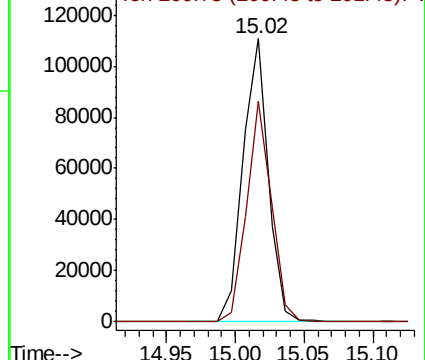
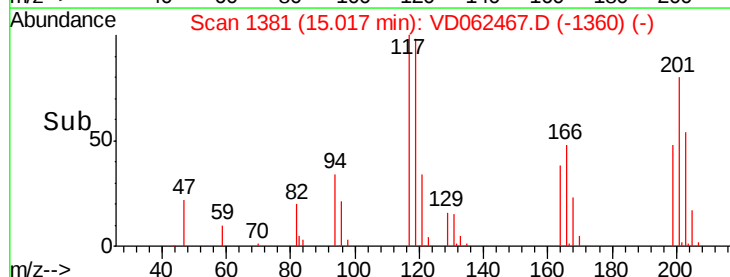
117 100

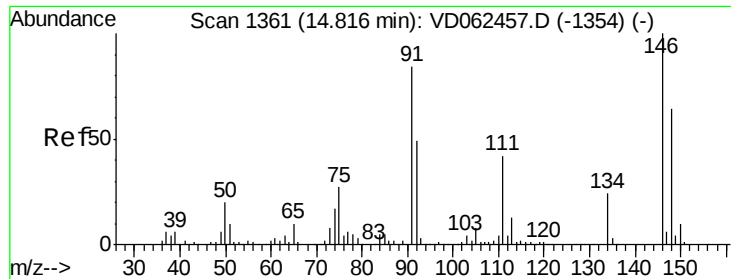
201 77.9 30.2 90.6



Abundance Ion 116.85 (116.55 to 117.55): VDC

Ion 200.75 (200.45 to 201.45): VDC

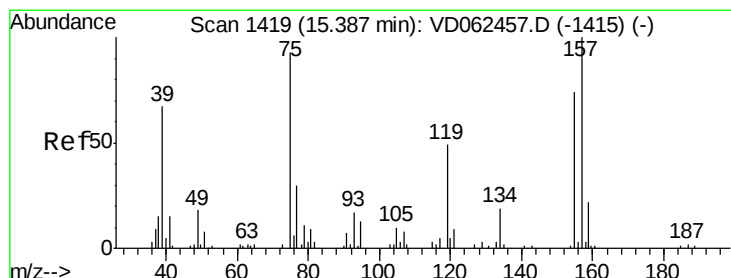
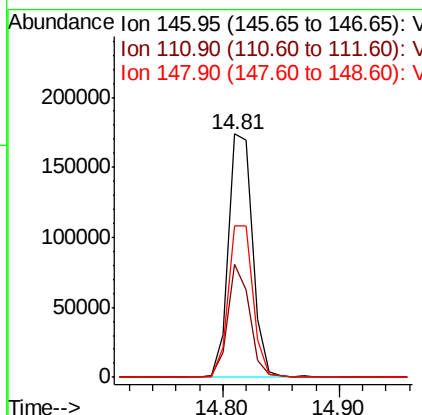
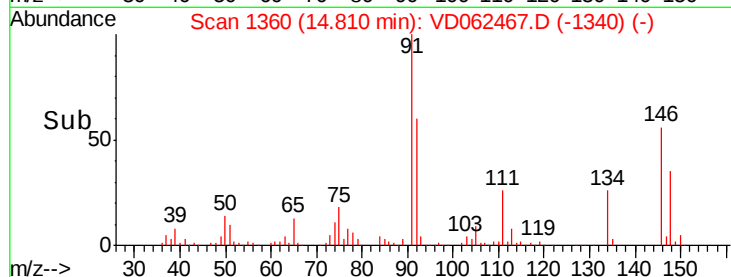
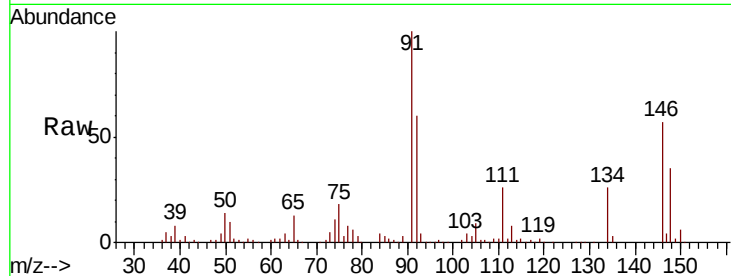




#91
 1,2-Dichlorobenzene
 Concen: 21.843 ug/l
 RT: 14.81 min Scan# 1360
 Delta R.T. -0.01 min
 Lab File: VD062467.D
 Acq: 20 May 2019 20:25

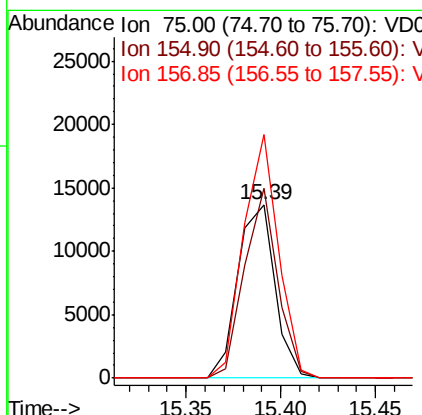
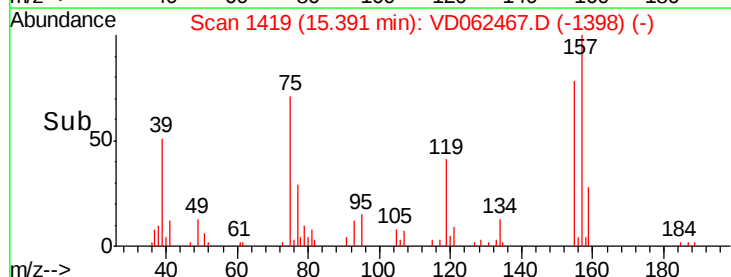
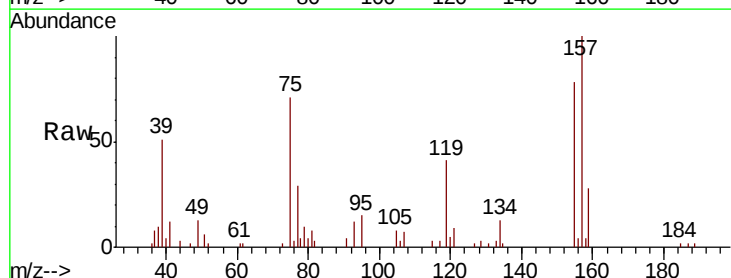
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0520SBS01

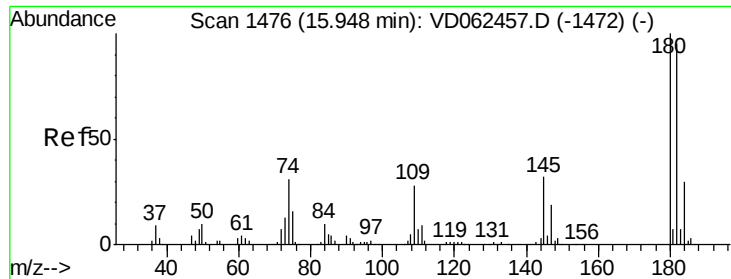
Tot Ion:146 Resp: 250355
 Ion Ratio Lower Upper
 146 100
 111 46.4 20.0 59.9
 148 62.2 32.3 96.8



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.122 ug/l
 RT: 15.39 min Scan# 1419
 Delta R.T. 0.00 min
 Lab File: VD062467.D
 Acq: 20 May 2019 20:25

Tgt Ion: 75 Resp: 18540
 Ion Ratio Lower Upper
 75 100
 155 109.6 55.3 165.8
 157 140.4 67.8 203.2

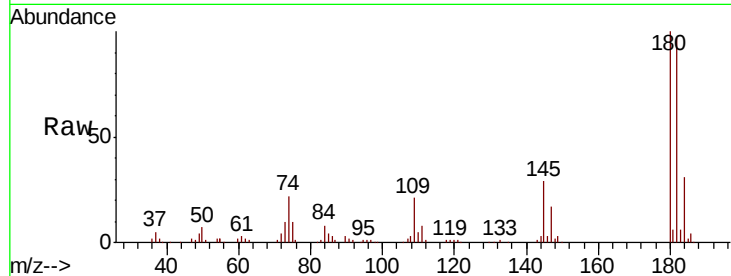




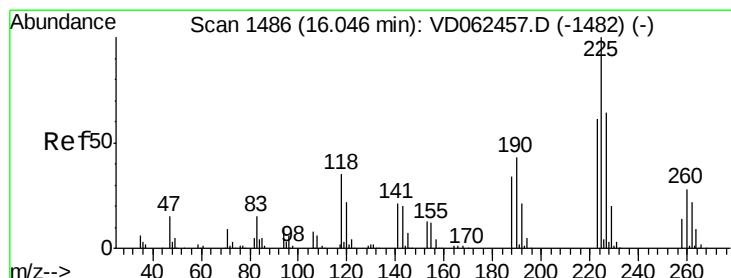
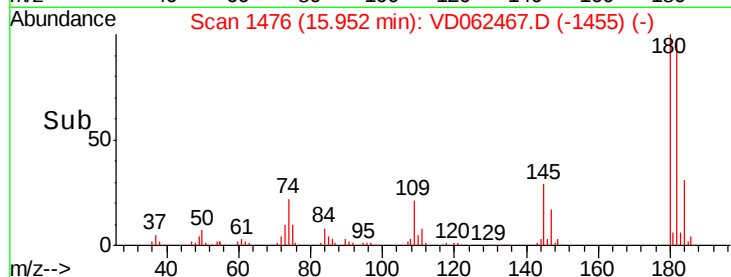
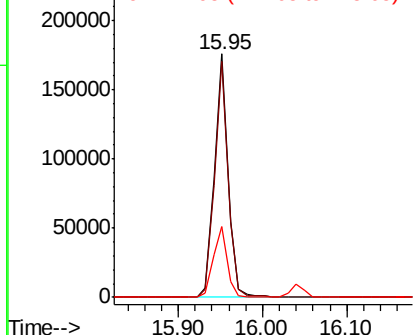
#93
 1,2,4-Trichlorobenzene
 Concen: 22.023 ug/l
 RT: 15.95 min Scan# 1476
 Delta R.T. 0.00 min
 Lab File: VD062467.D
 Acq: 20 May 2019 20:25

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0520SBS01

Tot Ion:180 Resp: 198752
 Ion Ratio Lower Upper
 180 100
 182 96.9 49.3 147.8
 145 29.2 16.2 48.6

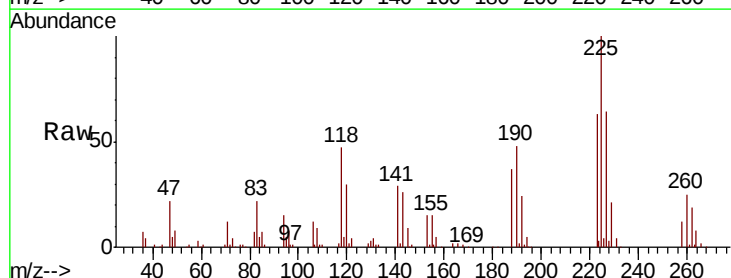


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

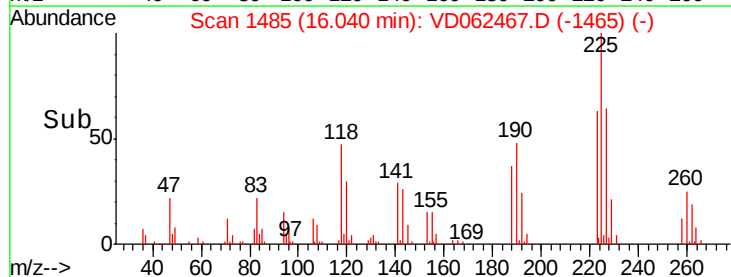
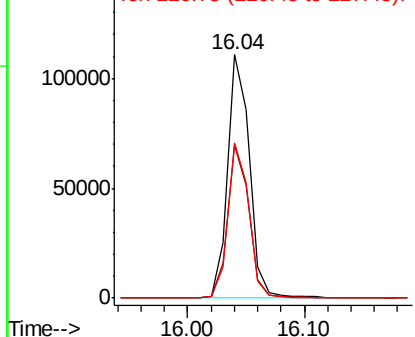


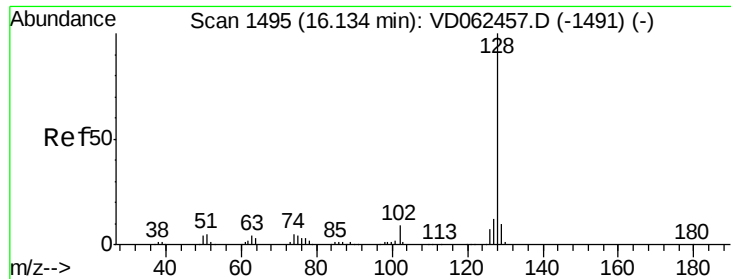
#94
 Hexachlorobutadiene
 Concen: 21.538 ug/l
 RT: 16.04 min Scan# 1485
 Delta R.T. -0.01 min
 Lab File: VD062467.D
 Acq: 20 May 2019 20:25

Tgt Ion:225 Resp: 143523
 Ion Ratio Lower Upper
 225 100
 223 62.9 30.6 92.0
 227 63.5 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

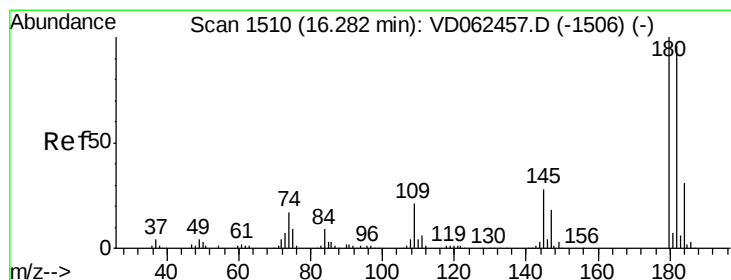
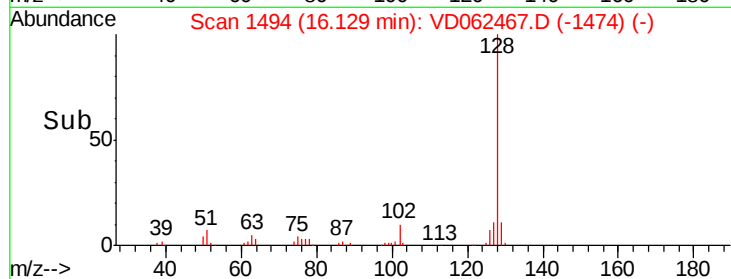
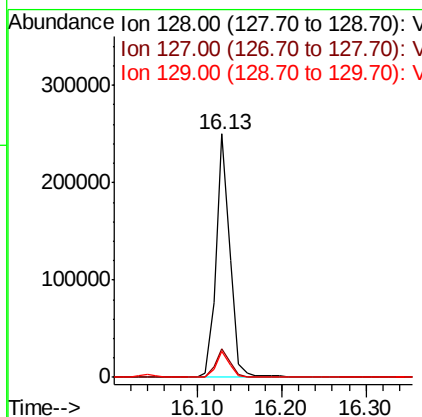
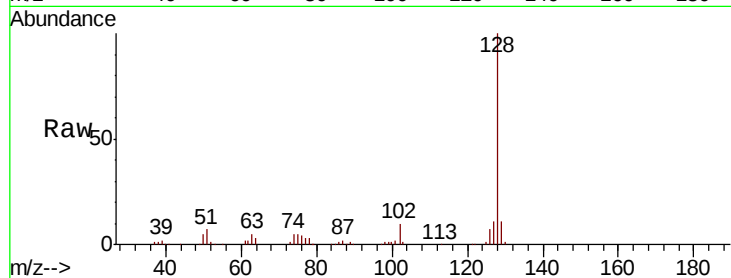




#95
Naphthalene
Concen: 22.901 ug/l
RT: 16.13 min Scan# 1494
Delta R.T. -0.01 min
Lab File: VD062467.D
Acq: 20 May 2019 20:25

Instrument :
MSVOA_D
ClientSampleId :
VD0520SBS01

Tot Ion:128 Resp: 282408
Ion Ratio Lower Upper
128 100
127 11.5 9.8 14.8
129 10.5 8.8 13.2



#96
1,2,3-Trichlorobenzene
Concen: 20.811 ug/l
RT: 16.28 min Scan# 1509
Delta R.T. -0.01 min
Lab File: VD062467.D
Acq: 20 May 2019 20:25

Tgt Ion:180 Resp: 153968
Ion Ratio Lower Upper
180 100
182 99.4 47.0 141.0
145 29.5 17.0 51.0

