

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052419\
 Data File : VD062531.D
 Acq On : 24 May 2019 14:54
 Operator : VA/AP
 Sample : VD0524SBS01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0524SBS01

Quant Time: May 24 22:09:25 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	7.04	168	425164	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	8.21	114	552960	50.00	ug/l	-0.02
63) Chlorobenzene-d5	12.37	117	454876	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	263437	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	226753	49.82	ug/l	0.00
Spiked Amount			Recovery	=	99.64%	
35) Dibromofluoromethane	6.92	113	232439	46.60	ug/l	-0.02
Spiked Amount			Recovery	=	93.20%	
50) Toluene-d8	10.41	98	481317	44.09	ug/l	-0.02
Spiked Amount			Recovery	=	88.18%	
62) 4-Bromofluorobenzene	13.56	95	214766	44.97	ug/l	0.00
Spiked Amount			Recovery	=	89.94%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.57	85	95256	20.969	ug/l	94
3) Chloromethane	1.75	50	65095	22.101	ug/l	99
4) Vinyl Chloride	1.85	62	74136	23.920	ug/l	96
5) Bromomethane	2.14	94	37856	28.306	ug/l	97
6) Chloroethane	2.25	64	40008	26.684	ug/l	98
7) Trichlorofluoromethane	2.52	101	186239	26.007	ug/l	100
8) Diethyl Ether	2.87	74	18415	19.063	ug/l #	39
9) 1,1,2-Trichlorotrifluoroet	3.14	101	94765	22.243	ug/l	91
10) Methyl Iodide	3.30	142	128292	21.596	ug/l #	80
11) Tert butyl alcohol	4.08	59	25486	121.321	ug/l	100
12) 1,1-Dichloroethene	3.13	96	65612	20.838	ug/l #	76
13) Acrolein	3.04	56	14721	84.383	ug/l	90
14) Allyl chloride	3.62	41	93925	20.231	ug/l #	71
15) Acrylonitrile	4.20	53	48860	101.503	ug/l	88
16) Acetone	3.22	43	91418	112.094	ug/l #	78
17) Carbon Disulfide	3.37	76	196431	20.599	ug/l	100
18) Methyl Acetate	3.65	43	31212	22.179	ug/l	99
19) Methyl tert-butyl Ether	4.24	73	169800	23.348	ug/l	94
20) Methylene Chloride	3.80	84	75143	17.534	ug/l	91
21) trans-1,2-Dichloroethene	4.21	96	77016	20.894	ug/l	93
22) Diisopropyl ether	5.12	45	197131	19.949	ug/l	88
23) Vinyl Acetate	5.05	43	614883	102.976	ug/l	99
24) 1,1-Dichloroethane	4.98	63	133745	21.015	ug/l	98
25) 2-Butanone	6.08	43	84662	99.254	ug/l	93
26) 2,2-Dichloropropane	6.02	77	161763	23.579	ug/l	89
27) cis-1,2-Dichloroethene	6.03	96	80040	20.138	ug/l	91
28) Bromochloromethane	6.43	49	45885	20.088	ug/l	88
29) Tetrahydrofuran	6.46	42	39633	97.289	ug/l	94
30) Chloroform	6.66	83	176092	21.703	ug/l	99
31) Cyclohexane	6.95	56	81997	19.082	ug/l	93
32) 1,1,1-Trichloroethane	6.86	97	183884	22.448	ug/l	96
36) 1,1-Dichloropropene	7.14	75	120121	22.722	ug/l	94
37) Ethyl Acetate	6.18	43	52459	25.543	ug/l #	95
38) Carbon Tetrachloride	7.11	117	199742	25.422	ug/l	97

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.86	83	93279	21.392	ug/l	90
40) Benzene	7.46	78	213054	20.545	ug/l	99
41) Methacrylonitrile	6.44	41	55529	21.528	ug/l #	81
42) 1,2-Dichloroethane	7.57	62	132655	24.158	ug/l	85
43) Isopropyl Acetate	9.25	43	57411	21.072	ug/l	90
44) Trichloroethene	8.54	130	89492	21.554	ug/l	88
45) 1,2-Dichloropropane	8.94	63	51496	20.377	ug/l	97
46) Dibromomethane	9.06	93	51814	22.619	ug/l	97
47) Bromodichloromethane	9.37	83	134182	23.026	ug/l	98
48) Methyl methacrylate	9.12	41	41662	22.723	ug/l #	80
49) 1,4-Dioxane	9.07	88	6922	420.897	ug/l #	91
51) 4-Methyl-2-Pentanone	10.30	43	198233	110.135	ug/l	93
52) Toluene	10.51	92	147689	20.804	ug/l	98
53) t-1,3-Dichloropropene	10.91	75	111259	22.932	ug/l	99
54) cis-1,3-Dichloropropene	10.03	75	117543	23.219	ug/l #	76
55) 1,1,2-Trichloroethane	11.18	97	50758	21.096	ug/l	99
56) Ethyl methacrylate	11.04	69	53914	20.961	ug/l #	71
57) 1,3-Dichloropropane	11.41	76	76251	20.665	ug/l	96
58) 2-Chloroethyl Vinyl ether	9.86	63	154722	117.148	ug/l	96
59) 2-Hexanone	11.53	43	141332	108.041	ug/l	92
60) Dibromochloromethane	11.69	129	108422	23.462	ug/l	99
61) 1,2-Dibromoethane	11.80	107	65095	21.954	ug/l	99
64) Tetrachloroethene	11.25	164	79358	20.836	ug/l	93
65) Chlorobenzene	12.40	112	175317	20.042	ug/l	97
66) 1,1,1,2-Tetrachloroethane	12.51	131	90560	22.428	ug/l	93
67) Ethyl Benzene	12.52	91	336124	22.309	ug/l	93
68) m/p-Xylenes	12.67	106	228159	42.186	ug/l	79
69) o-Xylene	13.04	106	105564	20.687	ug/l	71
70) Styrene	13.07	104	183743	21.166	ug/l #	92
71) Bromoform	13.23	173	66480	24.791	ug/l #	92
73) Isopropylbenzene	13.40	105	342084	20.601	ug/l	94
74) N-amyl acetate	13.26	43	82963	20.229	ug/l #	93
75) 1,1,2,2-Tetrachloroethane	13.69	83	51041	17.038	ug/l	91
76) 1,2,3-Trichloropropane	13.73	75	62751	20.223	ug/l	99
77) Bromobenzene	13.66	156	94028	19.961	ug/l	86
78) n-propylbenzene	13.77	91	398528	20.719	ug/l	97
79) 2-Chlorotoluene	13.84	91	230201	19.721	ug/l	94
80) 1,3,5-Trimethylbenzene	13.93	105	307588	21.393	ug/l	91
81) trans-1,4-Dichloro-2-buten	13.47	75	17722	20.251	ug/l #	49
82) 4-Chlorotoluene	13.94	91	287000	21.350	ug/l	79
83) tert-Butylbenzene	14.19	119	327094	20.510	ug/l	90
84) 1,2,4-Trimethylbenzene	14.24	105	318675	21.631	ug/l	93
85) sec-Butylbenzene	14.36	105	322430	19.389	ug/l	94
86) p-Isopropyltoluene	14.49	119	334507	22.197	ug/l	92
87) 1,3-Dichlorobenzene	14.45	146	173116	20.811	ug/l	97
88) 1,4-Dichlorobenzene	14.53	146	174664	21.759	ug/l	98
89) n-Butylbenzene	14.80	91	275634	18.952	ug/l	92
90) Hexachloroethane	15.00	117	91460	21.960	ug/l	100
91) 1,2-Dichlorobenzene	14.81	146	139468	19.717	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	15.38	75	12747	22.417	ug/l	59

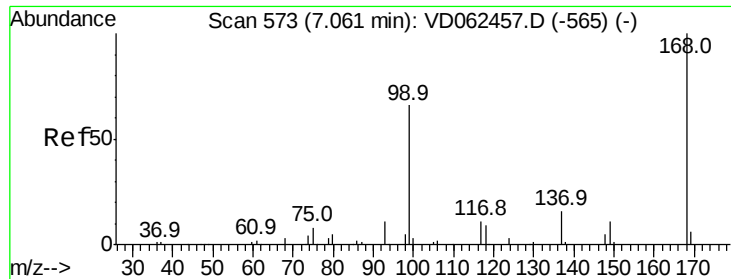
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD052419\
Data File : VD062531.D
Acq On : 24 May 2019 14:54
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Quant Time: May 24 22:09:25 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
Quant Title : SW846 8260
QLast Update : Tue May 21 03:32:39 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.94	180	110260	19.796	ug/l	96
94) Hexachlorobutadiene	16.04	225	83700	20.353	ug/l	99
95) Naphthalene	16.12	128	156770	20.599	ug/l	99
96) 1,2,3-Trichlorobenzene	16.27	180	89167	19.529	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.02 min

Lab File: VD062531.D

Acq: 24 May 2019 14:54

Instrument :

MSVOA_D

ClientSampleId :

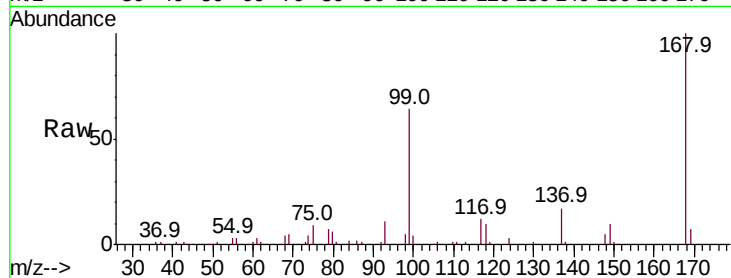
VD0524SBS01

Tot Ion:168 Resp: 425164

Ion Ratio Lower Upper

168 100

99 64.4 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

150000

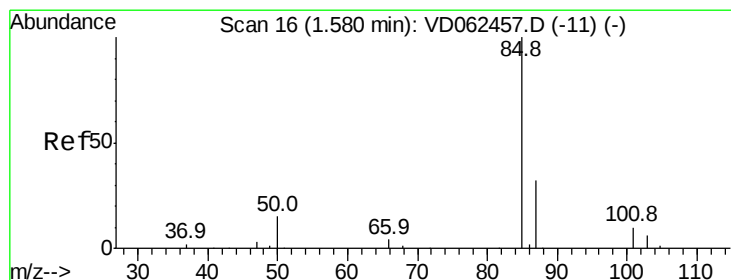
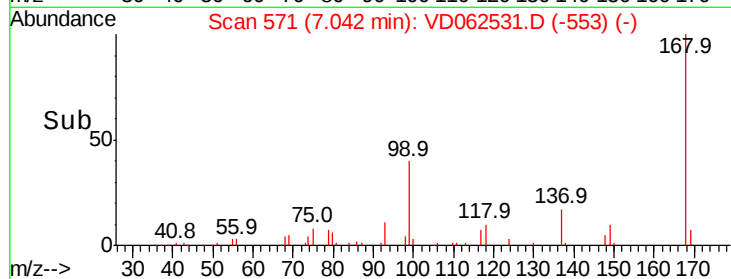
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#2

Dichlorodifluoromethane

Concen: 20.969 ug/l

RT: 1.57 min Scan# 15

Delta R.T. -0.01 min

Lab File: VD062531.D

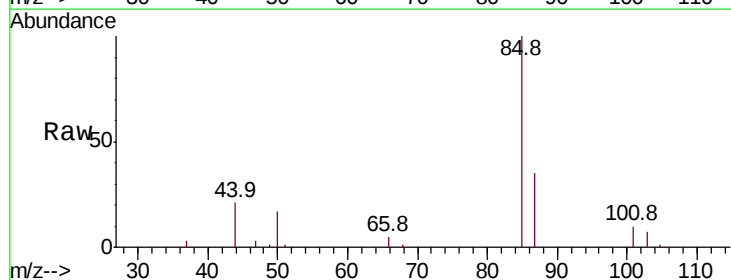
Acq: 24 May 2019 14:54

Tgt Ion: 85 Resp: 95256

Ion Ratio Lower Upper

85 100

87 35.5 16.2 48.6



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.57

60000

50000

40000

30000

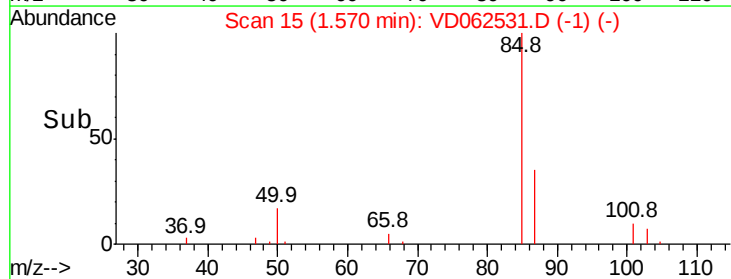
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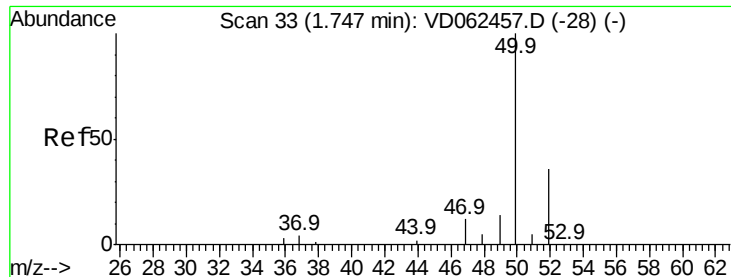
10000

0

1.50 1.60 1.70

Time-->





#3

Chloromethane

Concen: 22.101 ug/l

RT: 1.75 min Scan# 33

Delta R.T. 0.00 min

Lab File: VD062531.D

Acq: 24 May 2019 14:54

Instrument :

MSVOA_D

ClientSampleId :

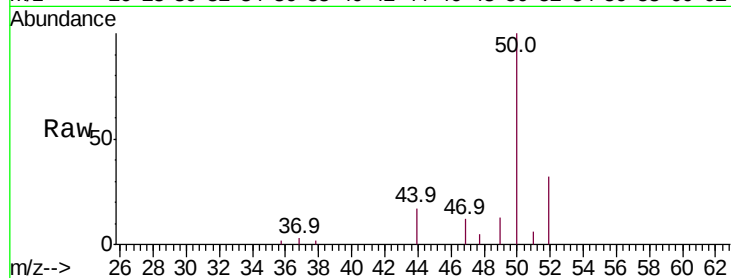
VD0524SBS01

Tot Ion: 50 Resp: 65095

Ion Ratio Lower Upper

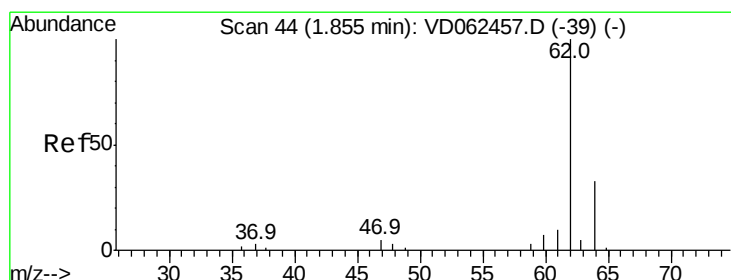
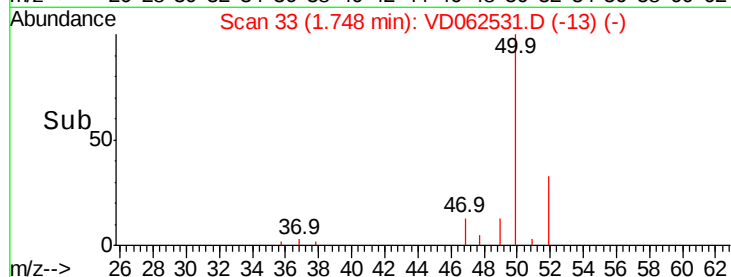
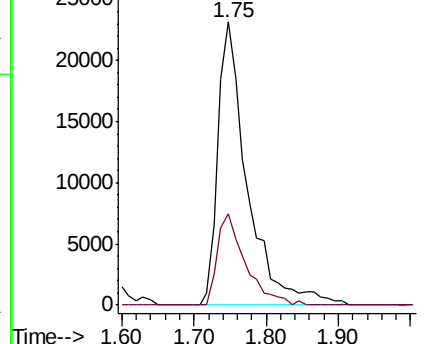
50 100

52 32.2 25.2 37.8



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 23.920 ug/l

RT: 1.85 min Scan# 43

Delta R.T. -0.01 min

Lab File: VD062531.D

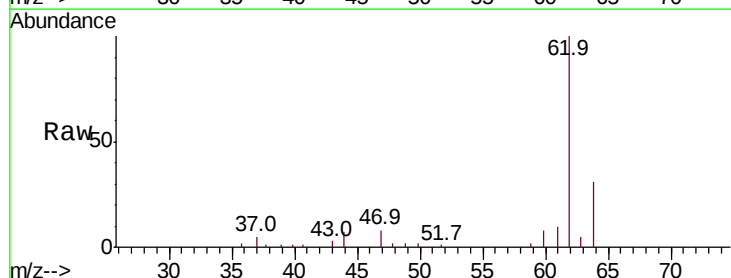
Acq: 24 May 2019 14:54

Tgt Ion: 62 Resp: 74136

Ion Ratio Lower Upper

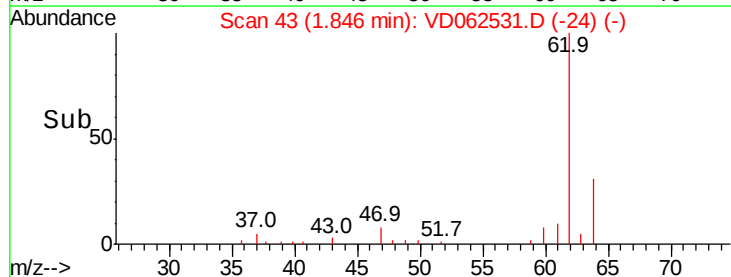
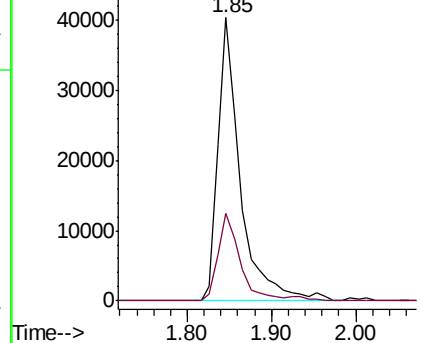
62 100

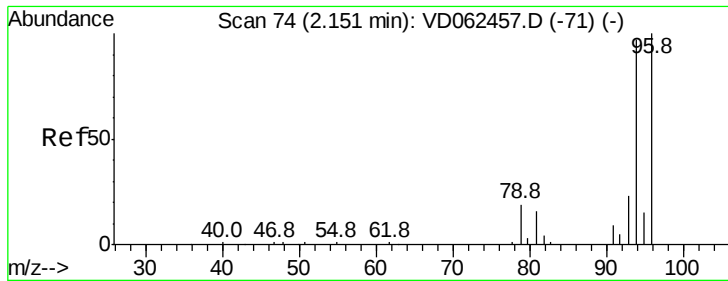
64 30.9 26.5 39.7



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 28.306 ug/l

RT: 2.14 min Scan# 73

Delta R.T. -0.01 min

Lab File: VD062531.D

Acq: 24 May 2019 14:54

Instrument :

MSVOA_D

ClientSampleId :

VD0524SBS01

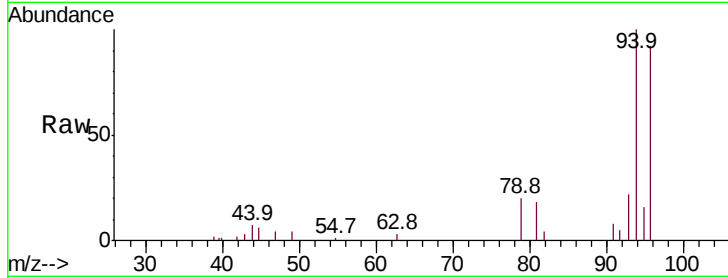
Tot Ion: 94 Resp: 37856

Ion Ratio Lower Upper

94 100

96 92.5 76.6 115.0

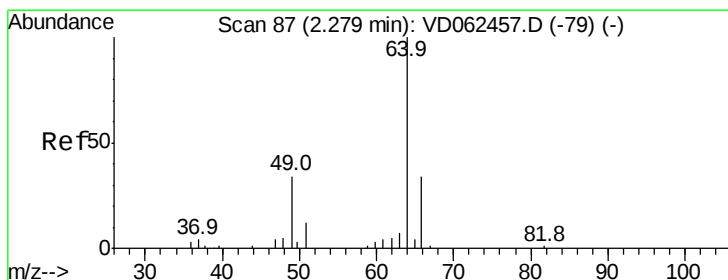
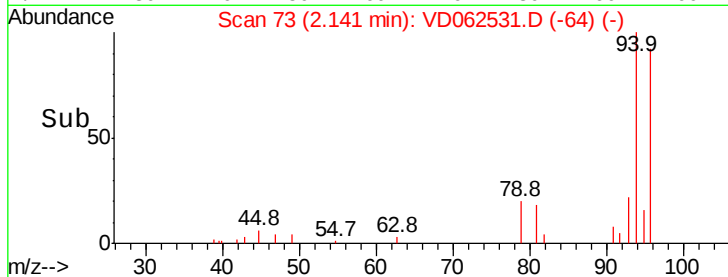
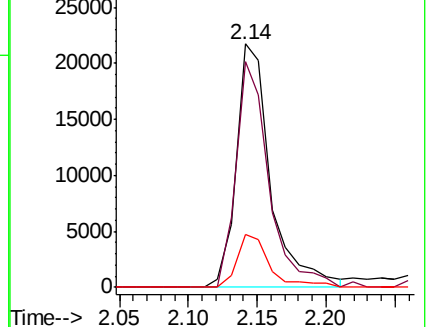
93 21.8 18.5 27.7



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: 26.684 ug/l

RT: 2.25 min Scan# 84

Delta R.T. -0.03 min

Lab File: VD062531.D

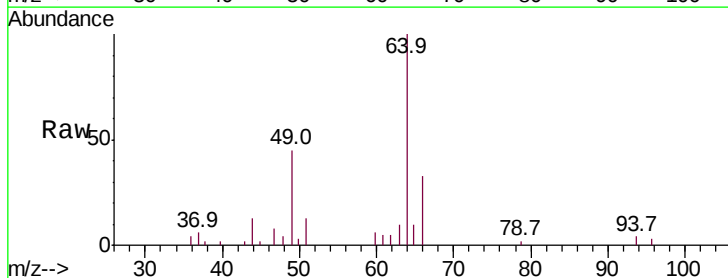
Acq: 24 May 2019 14:54

Tgt Ion: 64 Resp: 40008

Ion Ratio Lower Upper

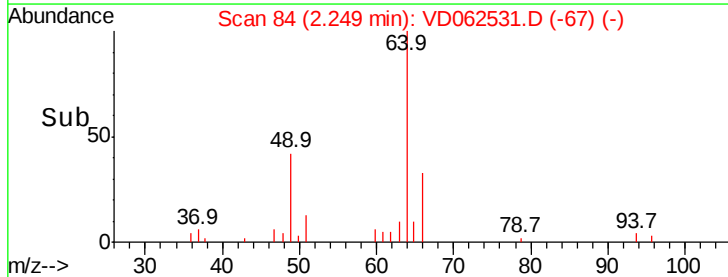
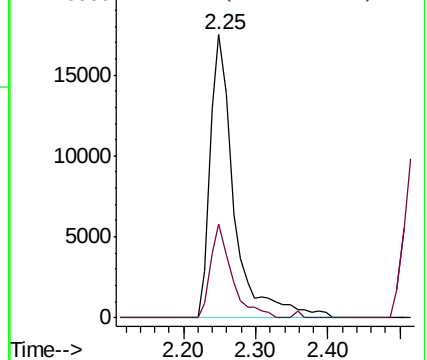
64 100

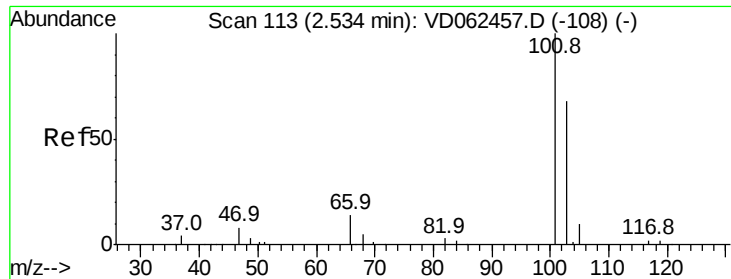
66 33.3 25.6 38.4



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



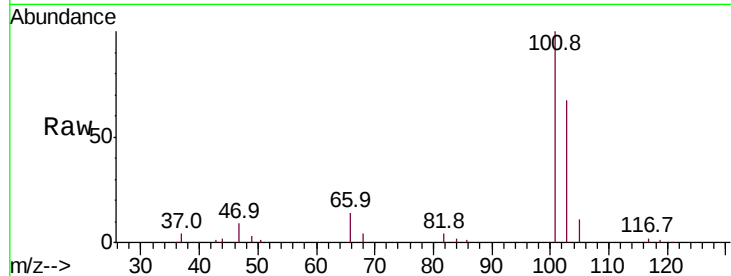


#7

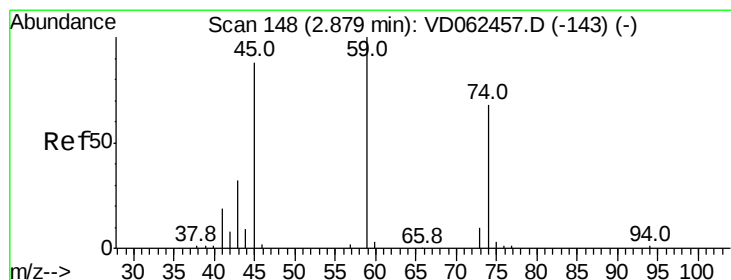
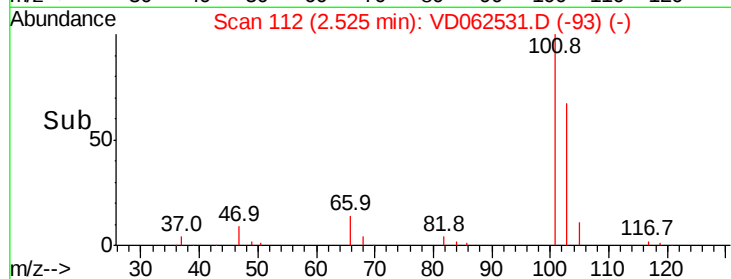
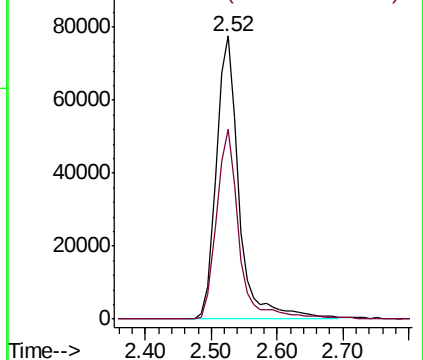
Trichlorofluoromethane
 Concen: 26.007 ug/l
 RT: 2.52 min Scan# 112
 Delta R.T. -0.01 min
 Lab File: VD062531.D
 Acq: 24 May 2019 14:54

Instrument :
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 VD0524SBS01

Tot Ion:101 Resp: 186239
 Ion Ratio Lower Upper
 101 100
 103 67.1 53.6 80.4



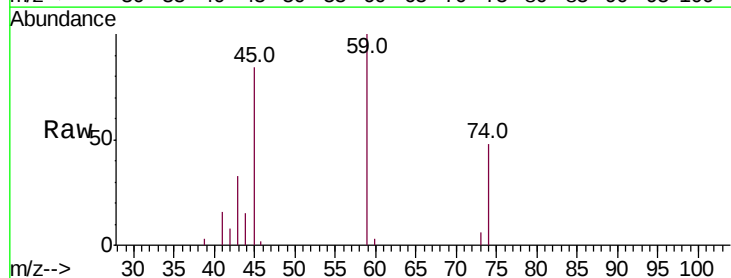
Abundance Ion 100.85 (100.55 to 101.55): V
 Ion 102.85 (102.55 to 103.55): V



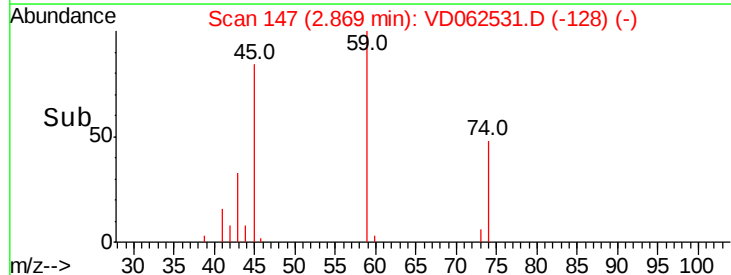
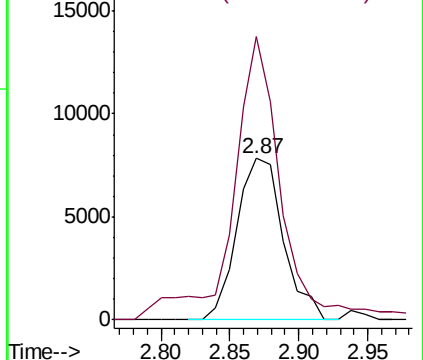
#8

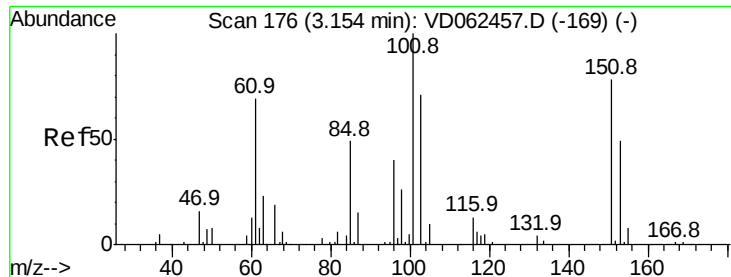
Diethyl Ether
 Concen: 19.063 ug/l
 RT: 2.87 min Scan# 147
 Delta R.T. -0.01 min
 Lab File: VD062531.D
 Acq: 24 May 2019 14:54

Tgt Ion: 74 Resp: 18415
 Ion Ratio Lower Upper
 74 100
 45 179.8 56.9 170.7#



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





#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.243 ug/l

RT: 3.14 min Scan# 175

Delta R.T. -0.01 min

Lab File: VD062531.D

Acq: 24 May 2019 14:54

Instrument :

MSVOA_D

ClientSampleId :

VD0524SBS01

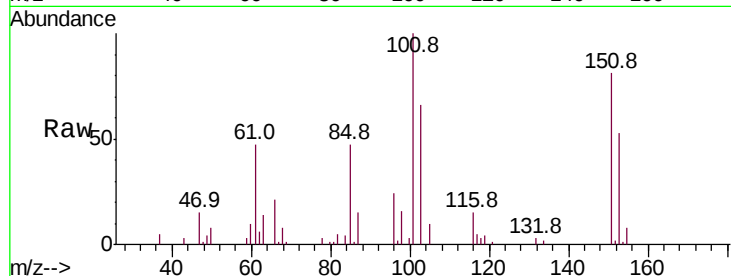
Tot Ion:101 Resp: 94765

Ion Ratio Lower Upper

101 100

85 47.4 32.4 48.6

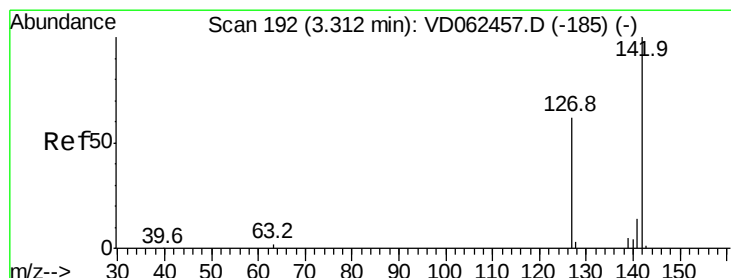
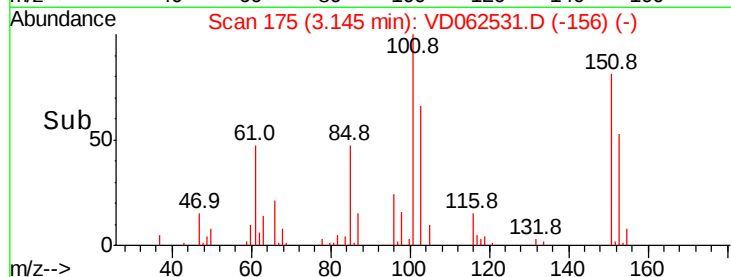
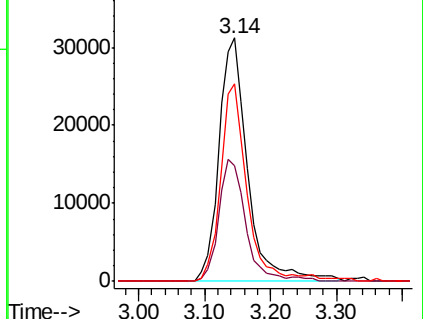
151 81.2 59.4 89.0



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): V

Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 21.596 ug/l

RT: 3.30 min Scan# 191

Delta R.T. -0.01 min

Lab File: VD062531.D

Acq: 24 May 2019 14:54

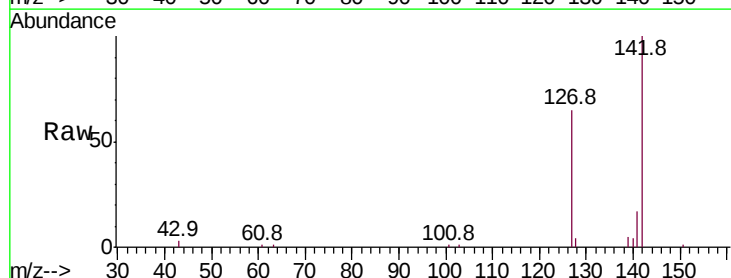
Tgt Ion:142 Resp: 128292

Ion Ratio Lower Upper

142 100

127 65.2 38.8 58.2#

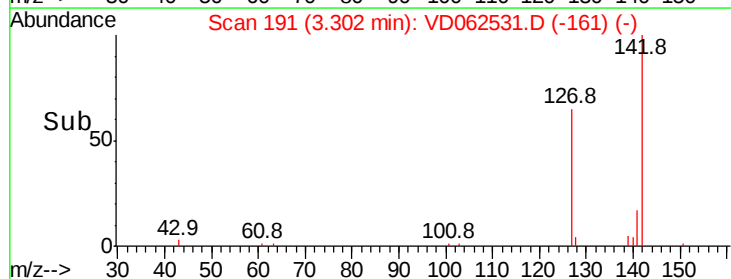
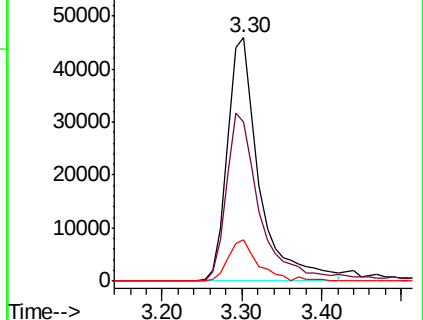
141 16.8 11.4 17.0

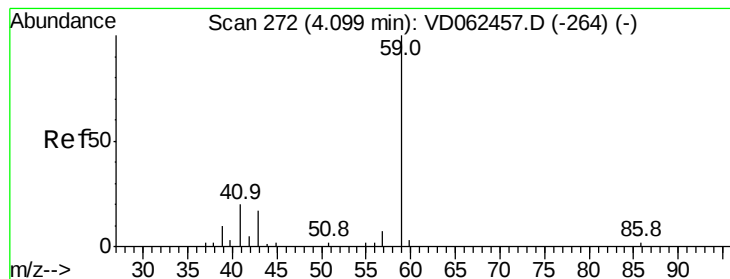


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



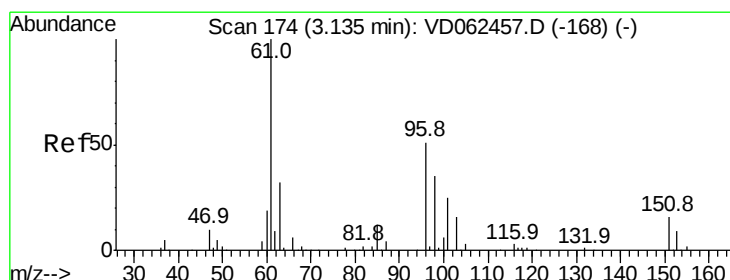
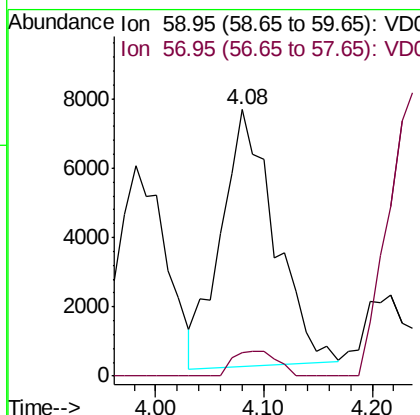
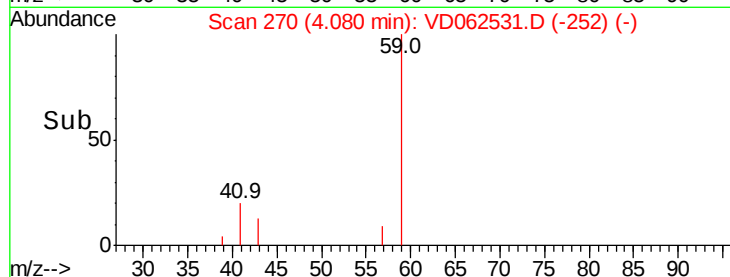
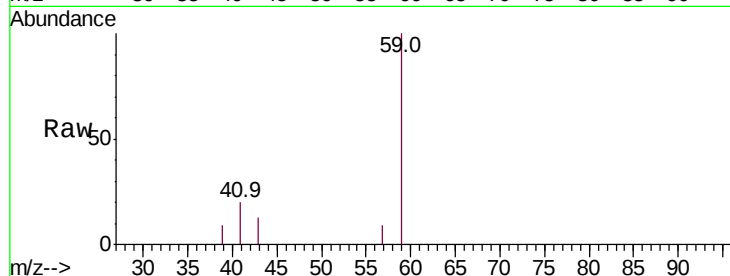


#11

Tert butyl alcohol
 Concen: 121.321 ug/l
 RT: 4.08 min Scan# 270
 Delta R.T. -0.02 min
 Lab File: VD062531.D
 Acq: 24 May 2019 14:54

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0524SBS01

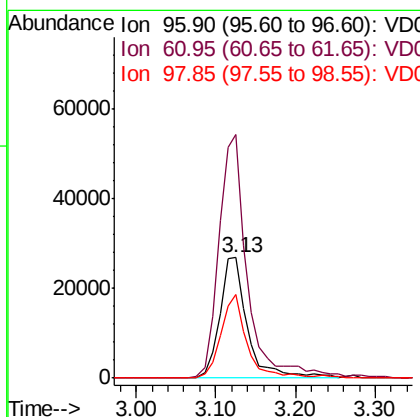
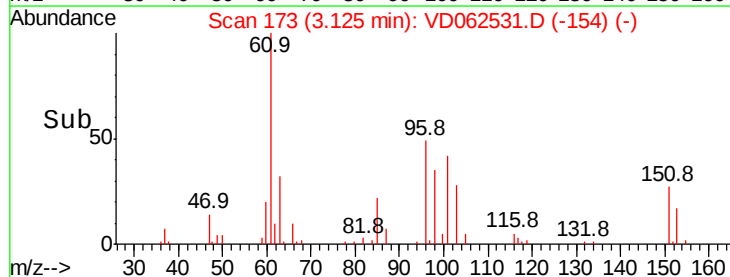
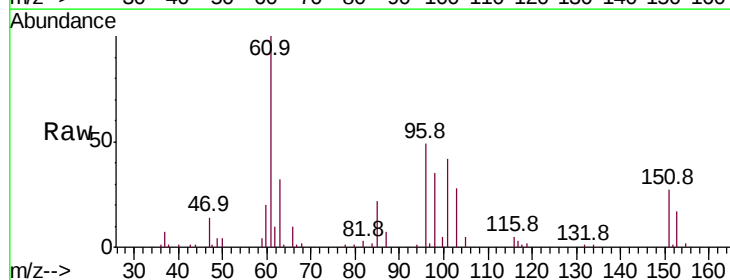
Tot Ion: 59 Resp: 25486
 Ion Ratio Lower Upper
 59 100
 57 8.6 6.9 10.3

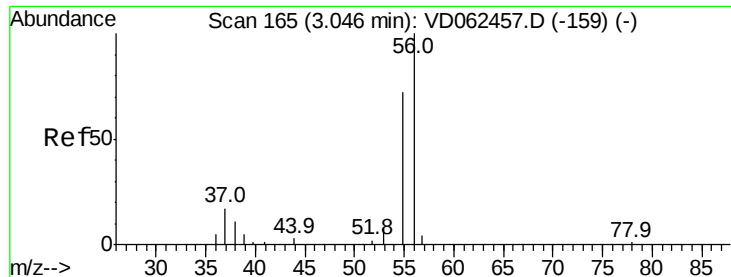


#12

1,1-Dichloroethene
 Concen: 20.838 ug/l
 RT: 3.13 min Scan# 173
 Delta R.T. -0.01 min
 Lab File: VD062531.D
 Acq: 24 May 2019 14:54

Tgt Ion: 96 Resp: 65612
 Ion Ratio Lower Upper
 96 100
 61 202.7 129.8 194.8#
 98 70.1 51.2 76.8





#13

Acrolein

Concen: 84.383 ug/l

RT: 3.04 min Scan# 164

Delta R.T. -0.01 min

Lab File: VD062531.D

Acq: 24 May 2019 14:54

Instrument :

MSVOA_D

ClientSampleId :

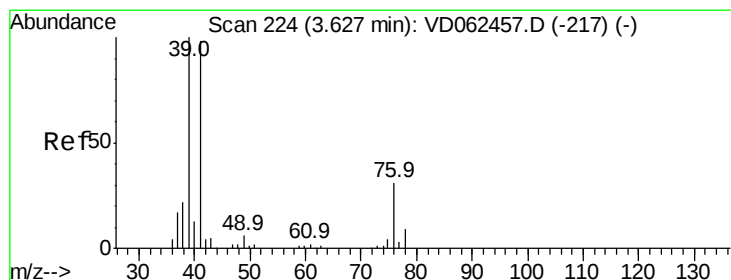
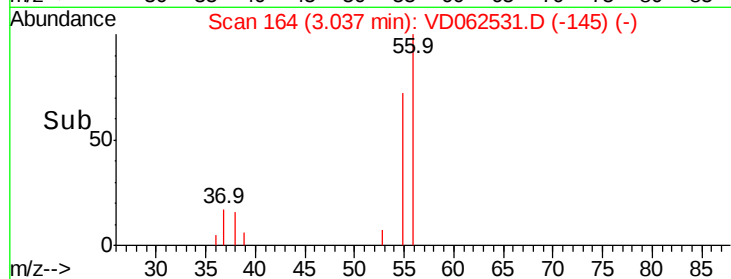
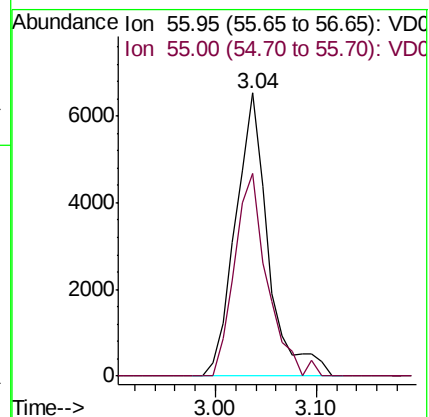
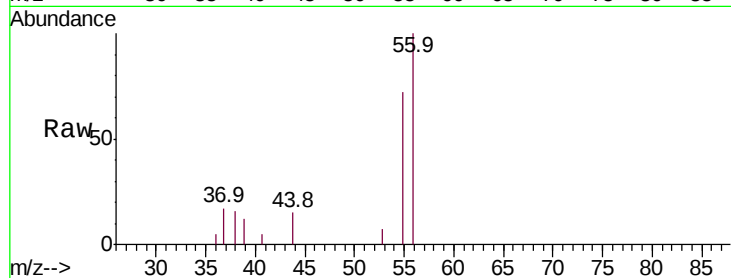
VD0524SBS01

Tot Ion: 56 Resp: 14721

Ion Ratio Lower Upper

56 100

55 71.8 51.4 77.2



#14

Allyl chloride

Concen: 20.231 ug/l

RT: 3.62 min Scan# 223

Delta R.T. -0.01 min

Lab File: VD062531.D

Acq: 24 May 2019 14:54

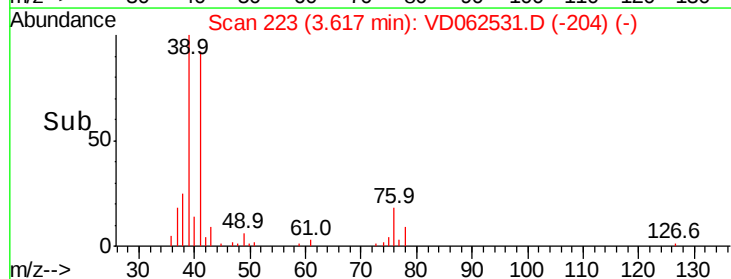
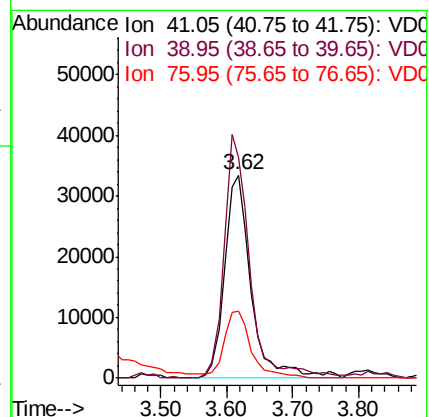
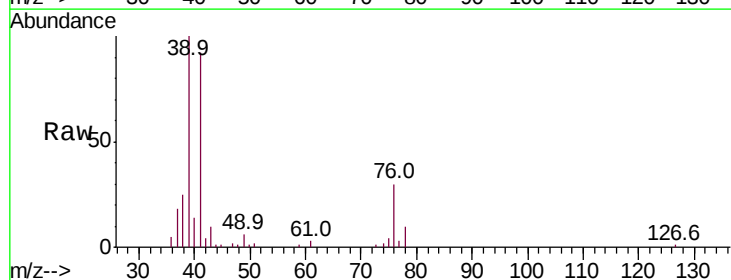
Tgt Ion: 41 Resp: 93925

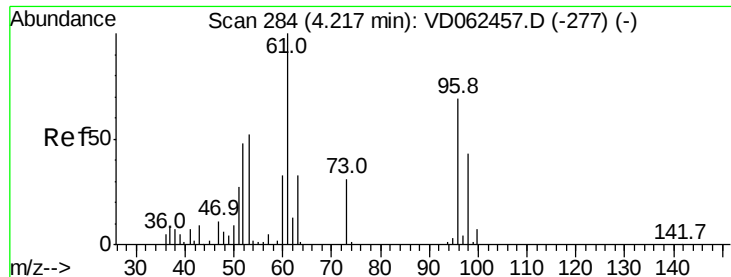
Ion Ratio Lower Upper

41 100

39 108.8 60.5 90.7#

76 33.0 31.8 47.8





#15

Acrylonitrile

Concen: 101.503 ug/l

RT: 4.20 min Scan# 282

Delta R.T. -0.02 min

Lab File: VD062531.D

Acq: 24 May 2019 14:54

Instrument :

MSVOA_D

ClientSampleId :

VD0524SBS01

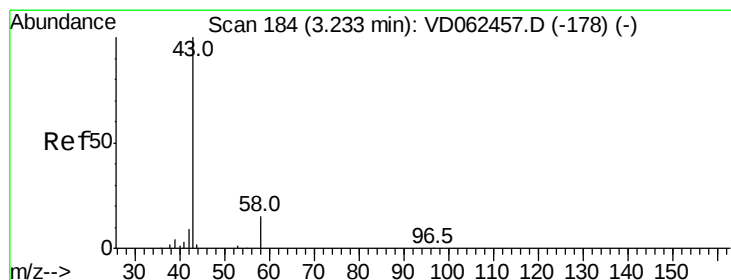
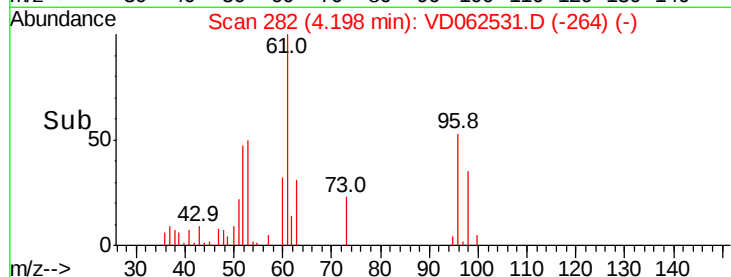
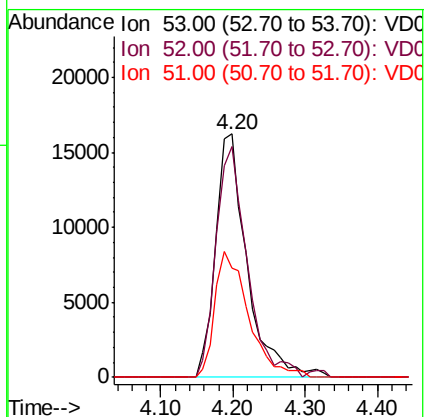
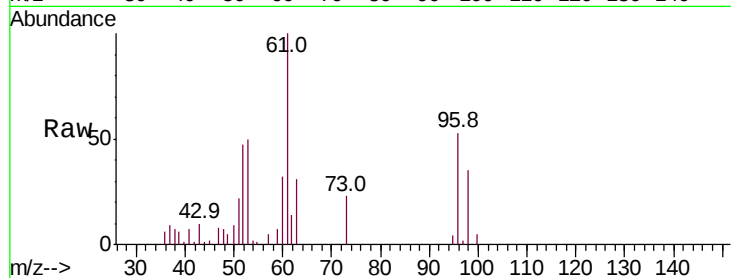
Tot Ion: 53 Resp: 48860

Ion Ratio Lower Upper

53 100

52 94.6 65.0 97.4

51 44.6 32.6 48.8



#16

Acetone

Concen: 112.094 ug/l

RT: 3.22 min Scan# 183

Delta R.T. -0.01 min

Lab File: VD062531.D

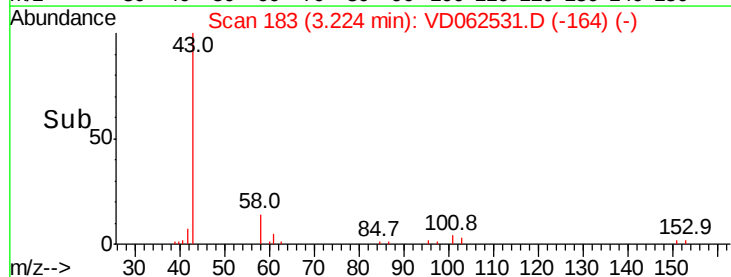
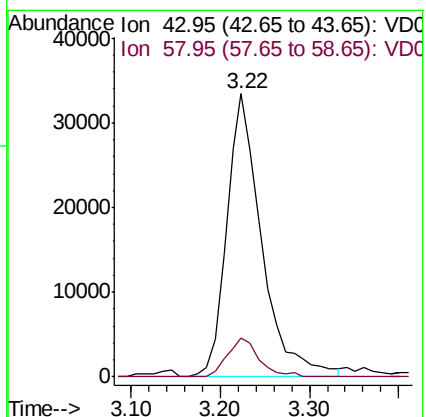
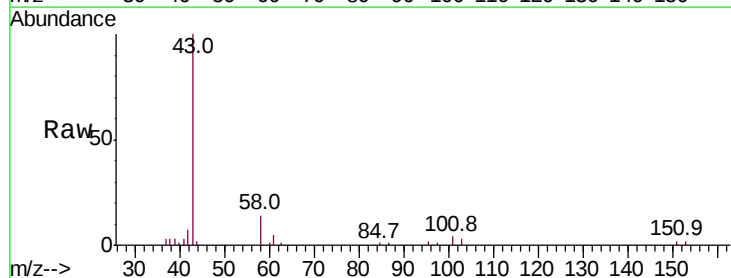
Acq: 24 May 2019 14:54

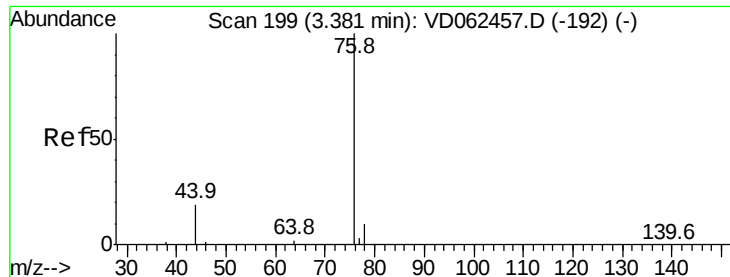
Tgt Ion: 43 Resp: 91418

Ion Ratio Lower Upper

43 100

58 13.8 19.9 29.9#

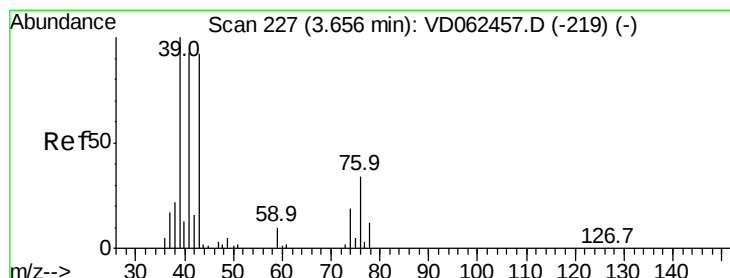
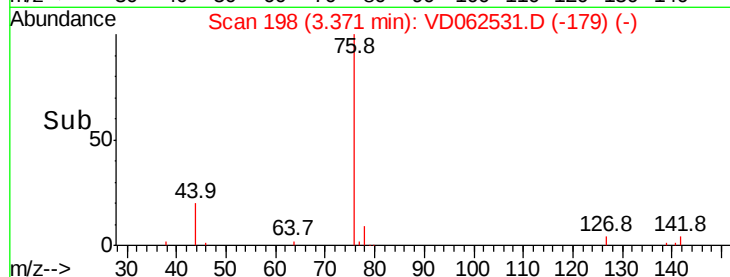
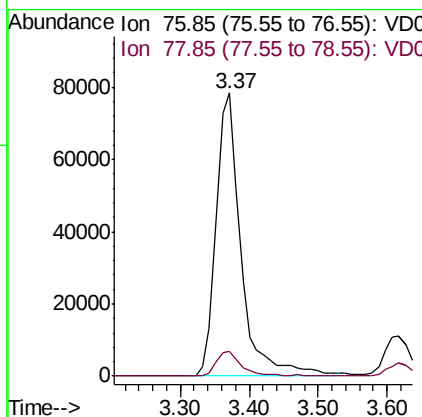
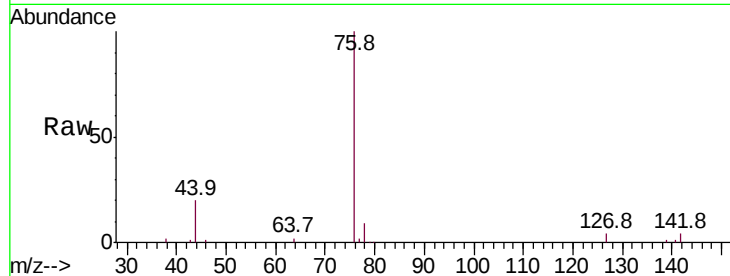




#17
Carbon Disulfide
Concen: 20.599 ug/l
RT: 3.37 min Scan# 198
Delta R.T. -0.01 min
Lab File: VD062531.D
Acq: 24 May 2019 14:54

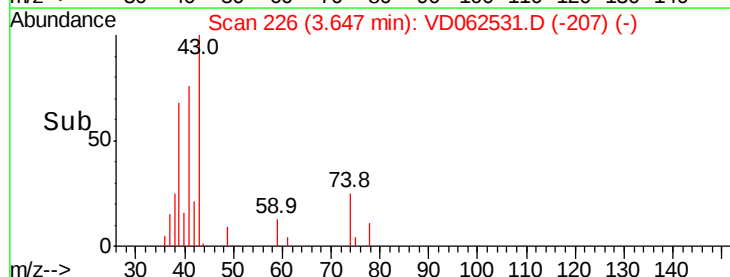
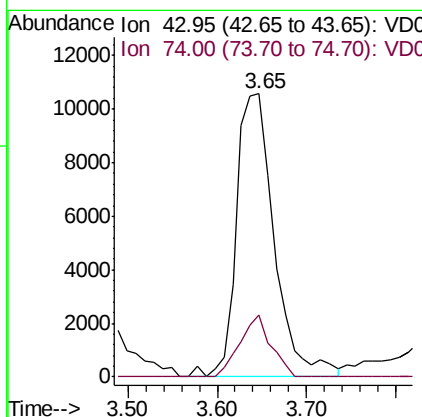
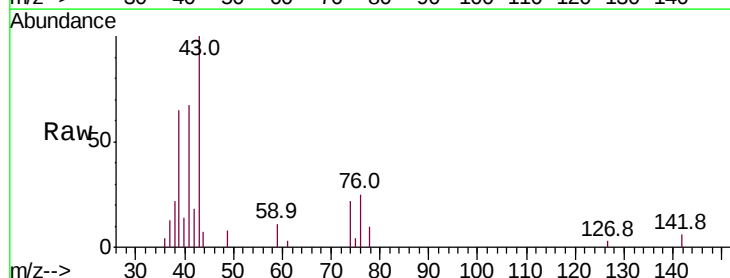
Instrument :
MSVOA_D
ClientSampleId :
VD0524SBS01

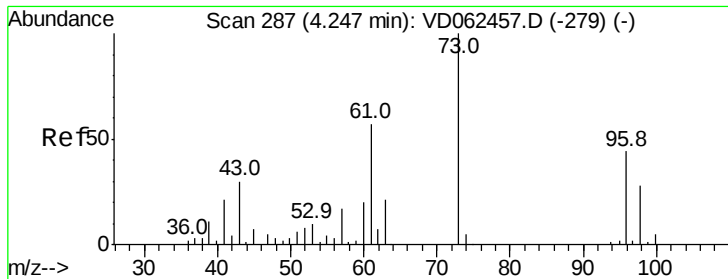
Tot Ion: 76 Resp: 196431
Ion Ratio Lower Upper
76 100
78 8.9 7.2 10.8



#18
Methyl Acetate
Concen: 22.179 ug/l
RT: 3.65 min Scan# 226
Delta R.T. -0.01 min
Lab File: VD062531.D
Acq: 24 May 2019 14:54

Tgt Ion: 43 Resp: 31212
Ion Ratio Lower Upper
43 100
74 22.1 18.0 27.0

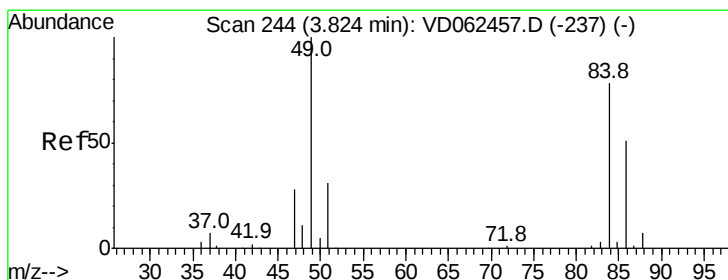
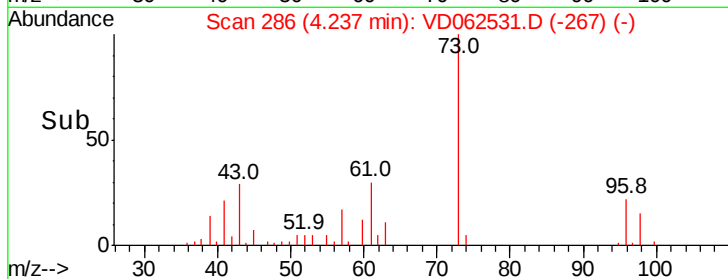
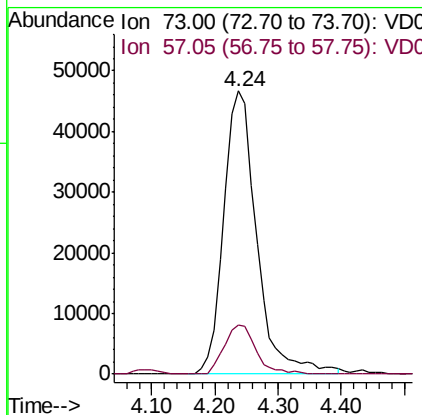
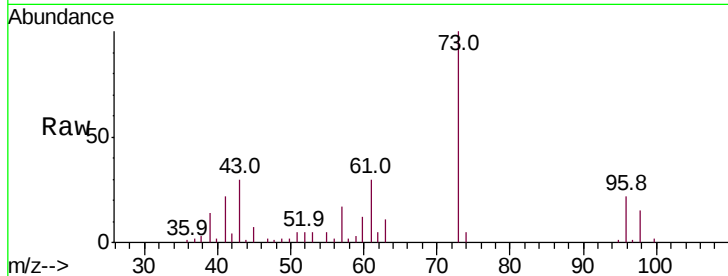




#19
Methvl tert-butvl Ether
Concen: 23.348 ug/l
RT: 4.24 min Scan# 286
Delta R.T. -0.01 min
Lab File: VD062531.D
Acq: 24 May 2019 14:54

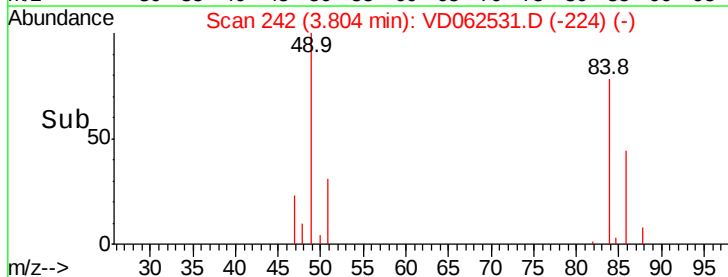
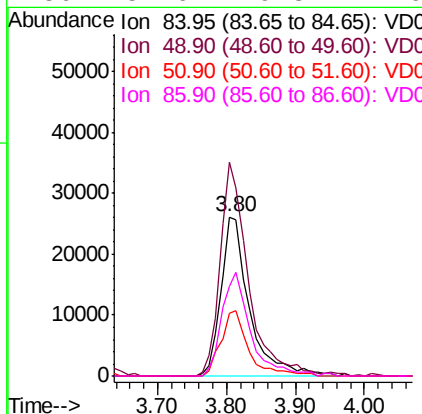
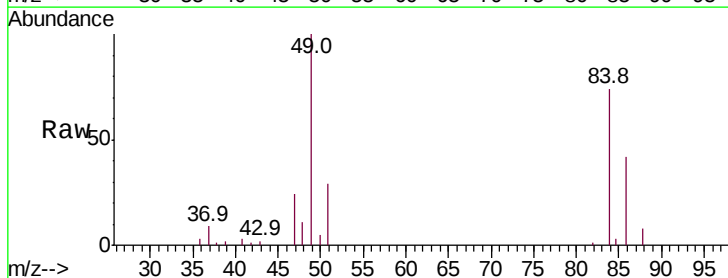
Instrument :
MSVOA_D
ClientSampleId :
VD0524SBS01

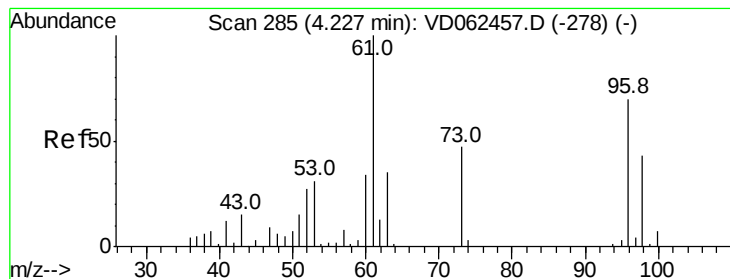
Tot Ion: 73 Resp: 169800
Ion Ratio Lower Upper
73 100
57 17.5 16.3 24.5



#20
Methylene Chloride
Concen: 17.534 ug/l
RT: 3.80 min Scan# 242
Delta R.T. -0.02 min
Lab File: VD062531.D
Acq: 24 May 2019 14:54

Tgt Ion: 84 Resp: 75143
Ion Ratio Lower Upper
84 100
49 129.5 94.0 141.0
51 38.1 29.0 43.4
86 54.6 49.8 74.6





#21

trans-1,2-Dichloroethene

Concen: 20.894 ug/l

RT: 4.21 min Scan# 283

Delta R.T. -0.02 min

Lab File: VD062531.D

Acq: 24 May 2019 14:54

Instrument :

MSVOA_D

ClientSampleId :

VD0524SBS01

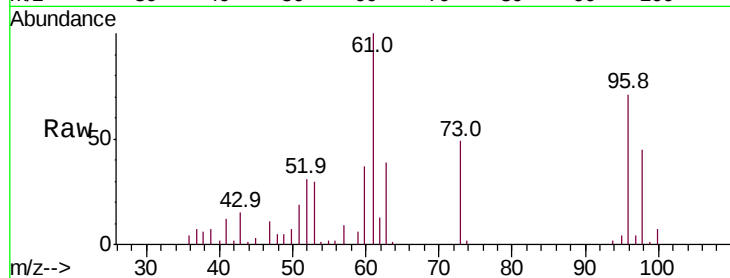
Tot Ion: 96 Resp: 77016

Ion Ratio Lower Upper

96 100

61 140.2 104.4 156.6

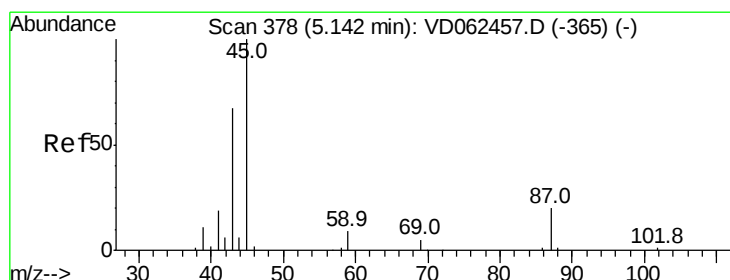
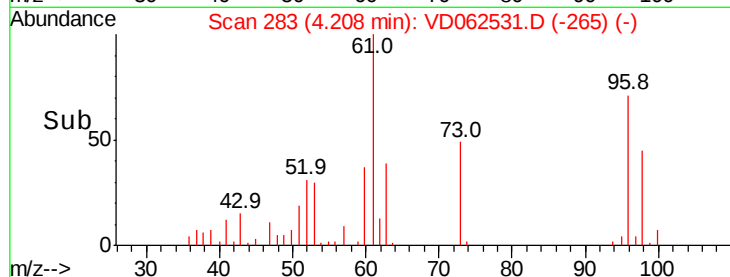
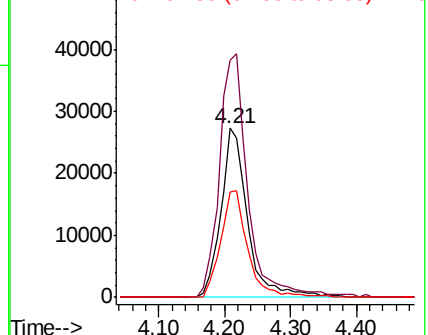
98 62.6 51.8 77.8



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: 19.949 ug/l

RT: 5.12 min Scan# 376

Delta R.T. -0.02 min

Lab File: VD062531.D

Acq: 24 May 2019 14:54

Tgt Ion: 45 Resp: 197131

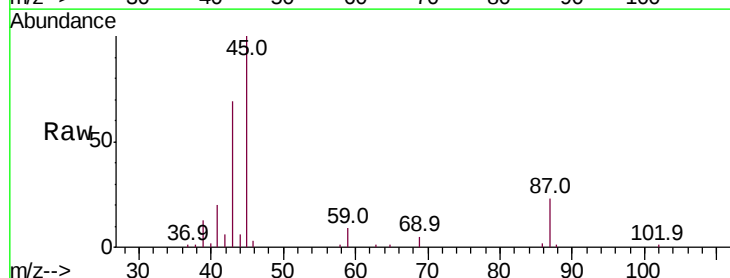
Ion Ratio Lower Upper

45 100

43 69.1 46.2 69.2

87 23.2 15.9 23.9

59 8.8 7.9 11.9

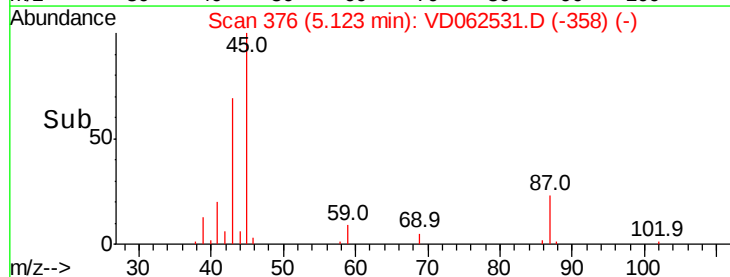
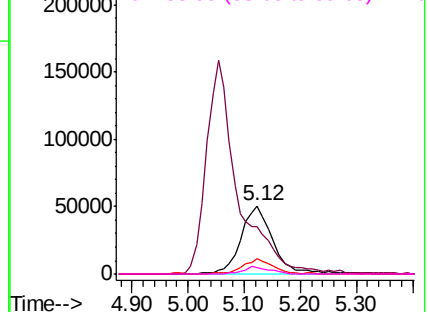


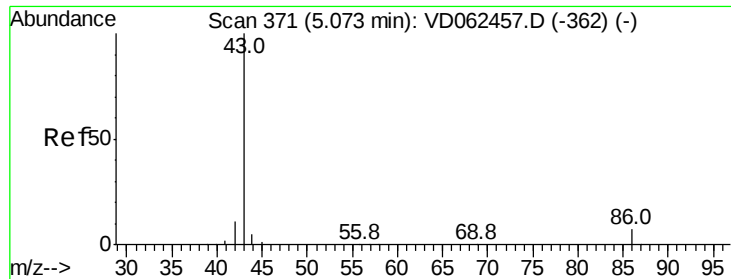
Abundance Ion 45.05 (44.75 to 45.75): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 87.00 (86.70 to 87.70): VDC

Ion 58.95 (58.65 to 59.65): VDC

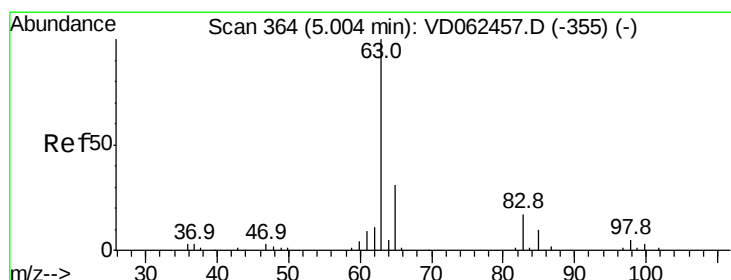
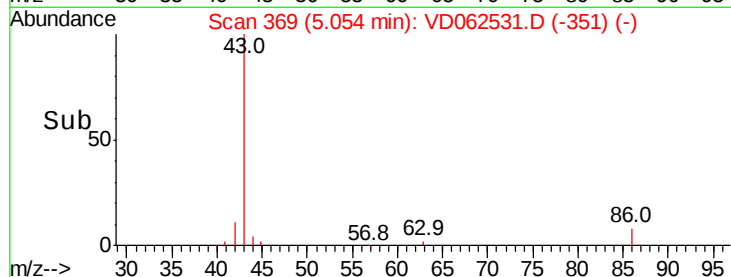
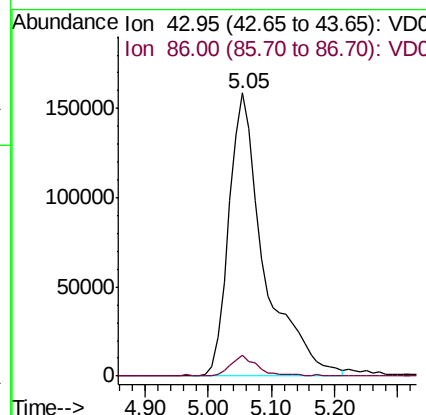
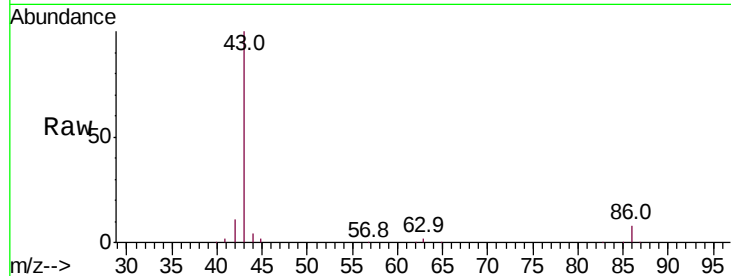




#23
 Vinyl Acetate
 Concen: 102.976 ug/l
 RT: 5.05 min Scan# 369
 Delta R.T. -0.02 min
 Lab File: VD062531.D
 Acq: 24 May 2019 14:54

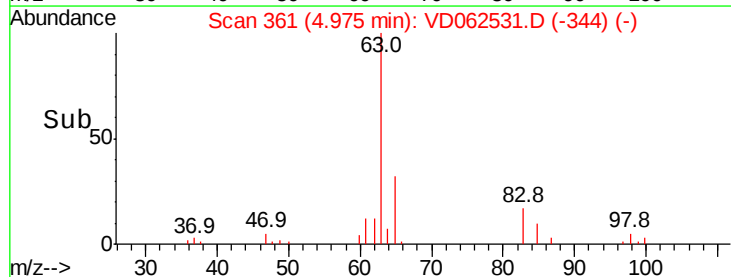
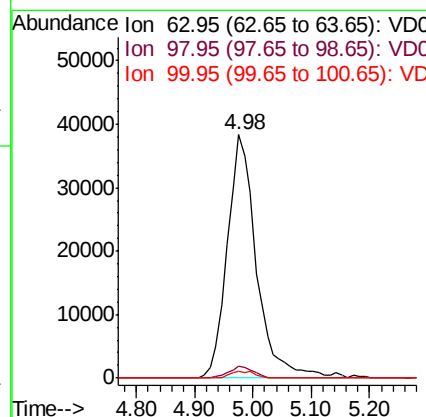
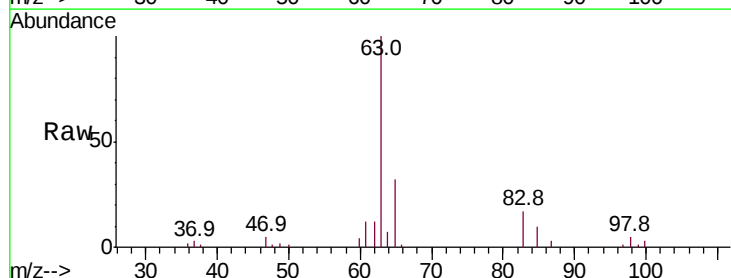
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0524SBS01

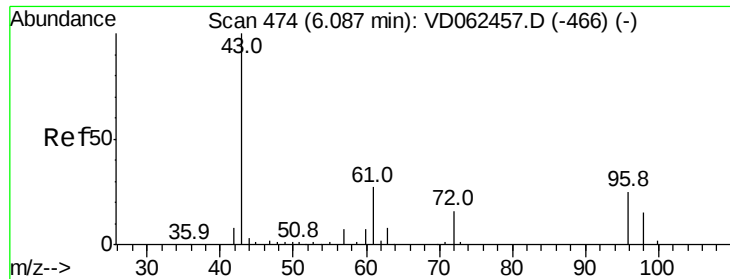
Tot Ion: 43 Resp: 614883
 Ion Ratio Lower Upper
 43 100
 86 7.5 6.4 9.6



#24
 1,1-Dichloroethane
 Concen: 21.015 ug/l
 RT: 4.98 min Scan# 361
 Delta R.T. -0.03 min
 Lab File: VD062531.D
 Acq: 24 May 2019 14:54

Tgt Ion: 63 Resp: 133745
 Ion Ratio Lower Upper
 63 100
 98 4.7 2.8 8.4
 100 3.0 1.8 5.5





#25

2-Butanone

Concen: 99.254 ug/l

RT: 6.08 min Scan# 473

Delta R.T. -0.01 min

Lab File: VD062531.D

Acq: 24 May 2019 14:54

Instrument :

MSVOA_D

ClientSampleId :

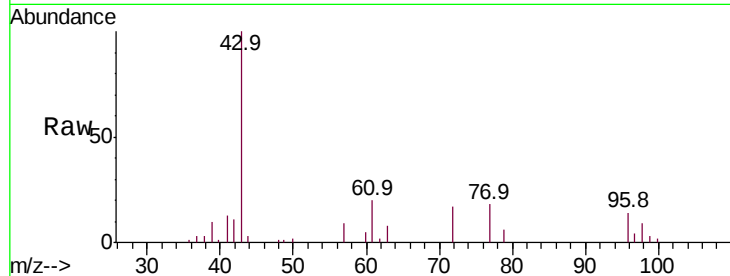
VD0524SBS01

Tot Ion: 43 Resp: 84662

Ion Ratio Lower Upper

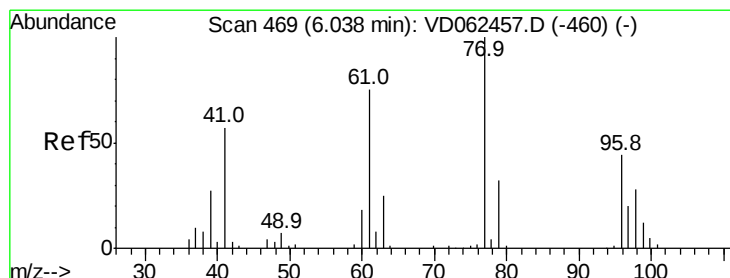
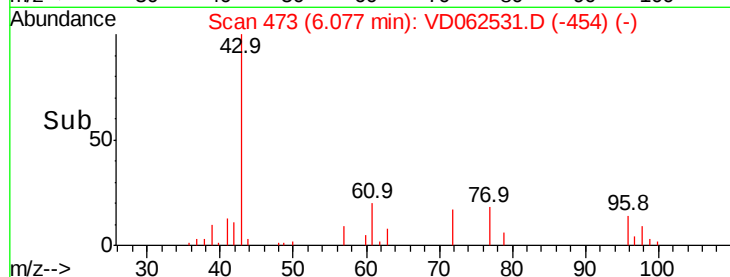
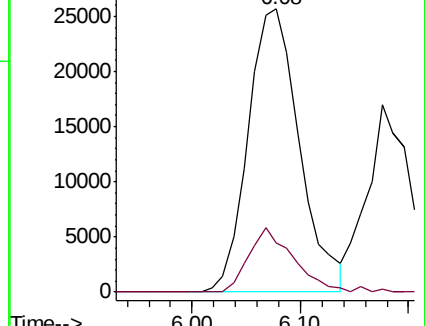
43 100

72 17.2 16.2 24.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 23.579 ug/l

RT: 6.02 min Scan# 467

Delta R.T. -0.02 min

Lab File: VD062531.D

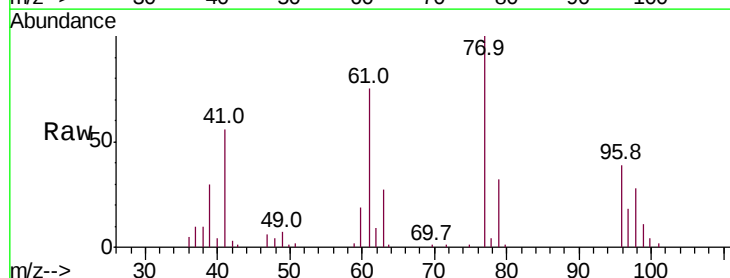
Acq: 24 May 2019 14:54

Tgt Ion: 77 Resp: 161763

Ion Ratio Lower Upper

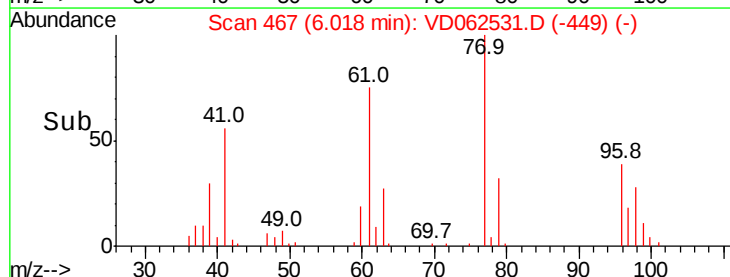
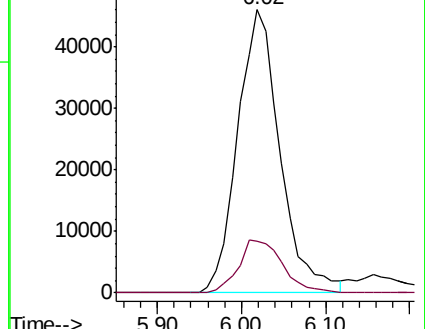
77 100

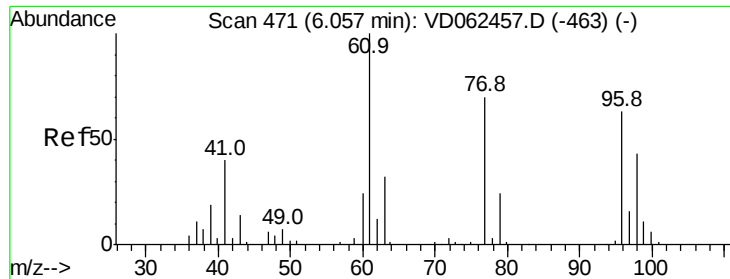
97 18.4 11.9 35.9



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



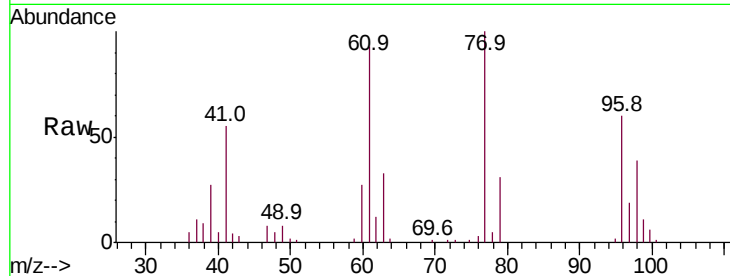


#27

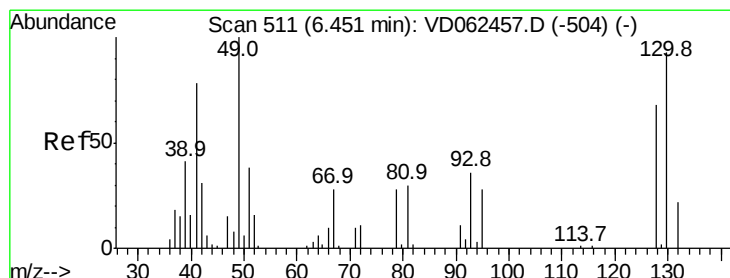
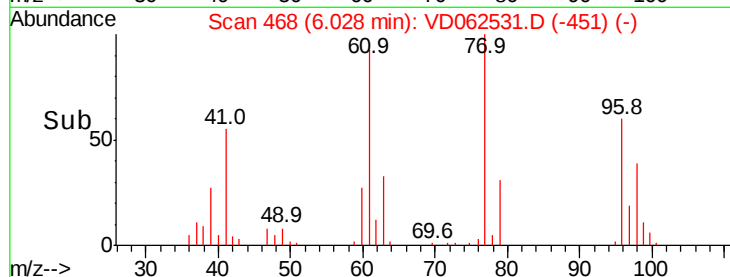
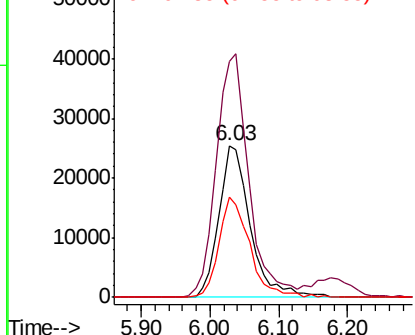
cis-1,2-Dichloroethene
 Concen: 20.138 ug/l
 RT: 6.03 min Scan# 468
 Delta R.T. -0.03 min
 Lab File: VD062531.D
 Acq: 24 May 2019 14:54

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0524SBS01

Tot Ion: 96 Resp: 80040
 Ion Ratio Lower Upper
 96 100
 61 155.5 0.0 279.8
 98 66.0 0.0 136.0



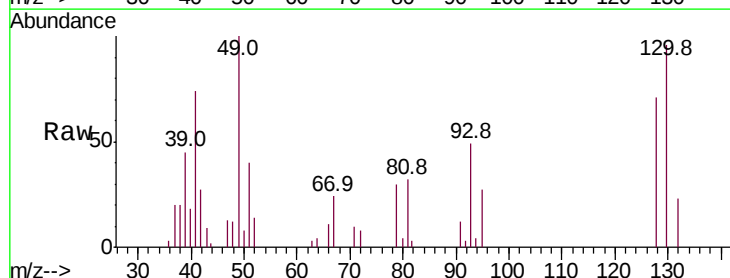
Abundance Ion 95.90 (95.60 to 96.60): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 97.85 (97.55 to 98.55): VDC



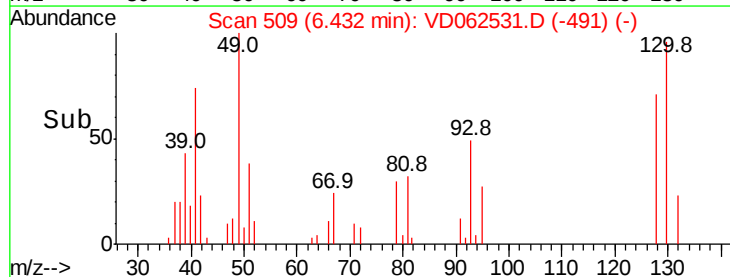
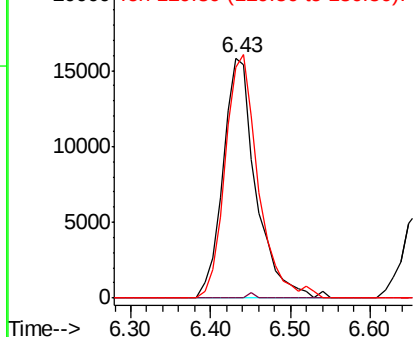
#28

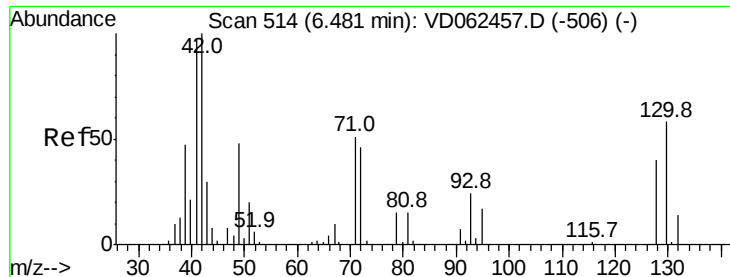
Bromochloromethane
 Concen: 20.088 ug/l
 RT: 6.43 min Scan# 509
 Delta R.T. -0.02 min
 Lab File: VD062531.D
 Acq: 24 May 2019 14:54

Tgt Ion: 49 Resp: 45885
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 6.6
 130 95.9 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: 97.289 ug/l

RT: 6.46 min Scan# 512

Delta R.T. -0.02 min

Lab File: VD062531.D

Acq: 24 May 2019 14:54

Instrument :

MSVOA_D

ClientSampleId :

VD0524SBS01

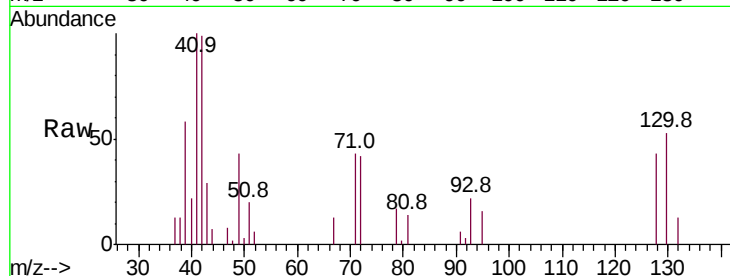
Tot Ion: 42 Resp: 39633

Ion Ratio Lower Upper

42 100

72 41.8 37.8 56.6

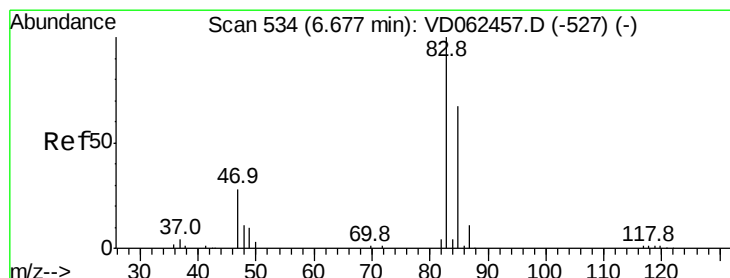
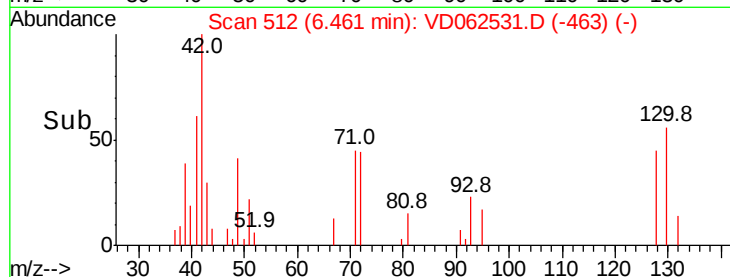
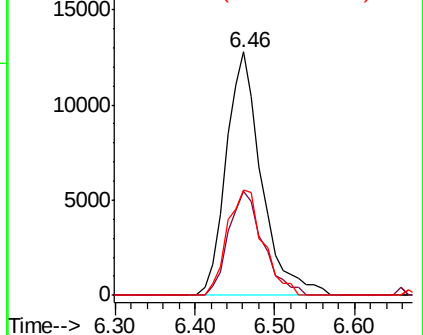
71 43.7 36.7 55.1



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: 21.703 ug/l

RT: 6.66 min Scan# 532

Delta R.T. -0.02 min

Lab File: VD062531.D

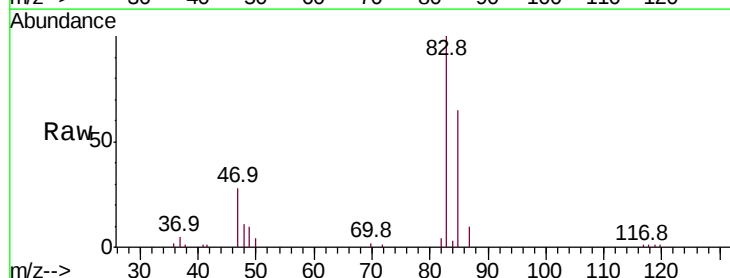
Acq: 24 May 2019 14:54

Tgt Ion: 83 Resp: 176092

Ion Ratio Lower Upper

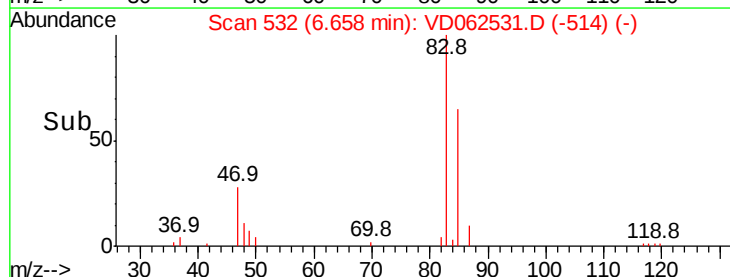
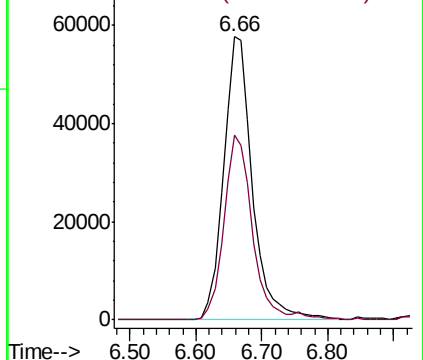
83 100

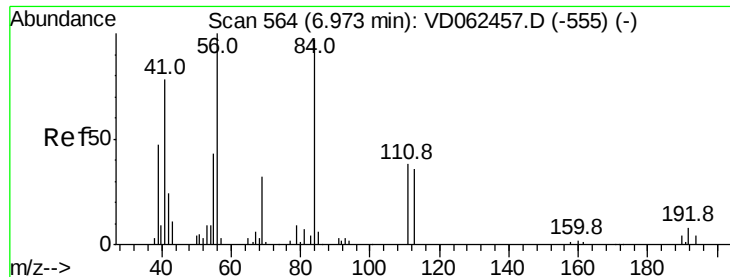
85 65.1 51.7 77.5



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC





#31

Cyclohexane

Concen: 19.082 ug/l

RT: 6.95 min Scan# 562

Delta R.T. -0.02 min

Lab File: VD062531.D

Acq: 24 May 2019 14:54

Instrument :

MSVOA_D

ClientSampleId :

VD0524SBS01

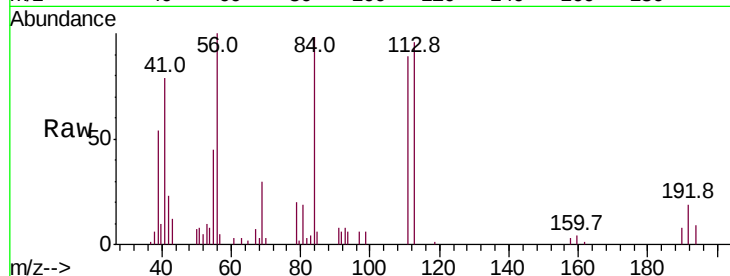
Tot Ion: 56 Resp: 81997

Ion Ratio Lower Upper

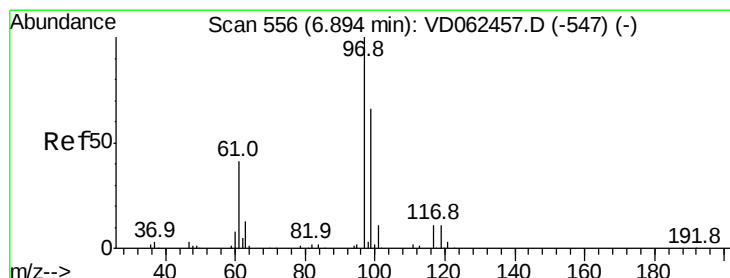
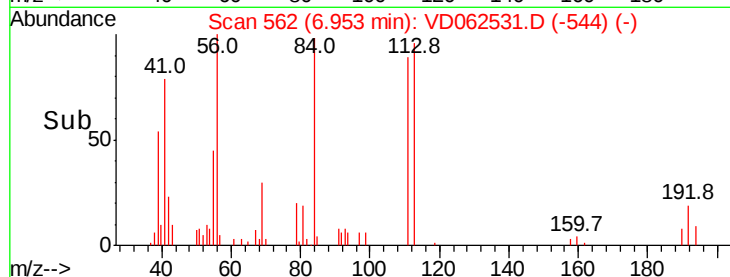
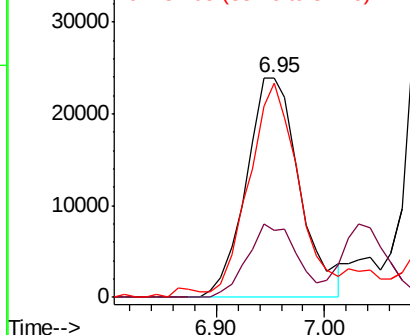
56 100

69 30.4 25.8 38.6

84 97.6 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: 22.448 ug/l

RT: 6.86 min Scan# 553

Delta R.T. -0.03 min

Lab File: VD062531.D

Acq: 24 May 2019 14:54

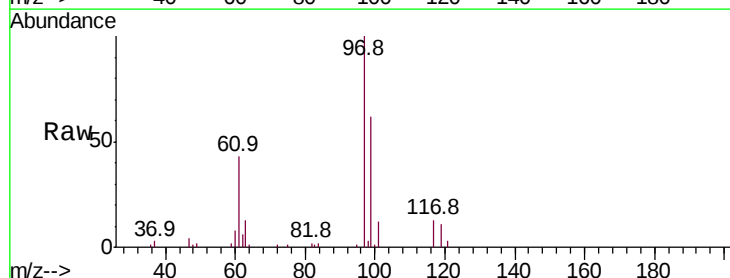
Tgt Ion: 97 Resp: 183884

Ion Ratio Lower Upper

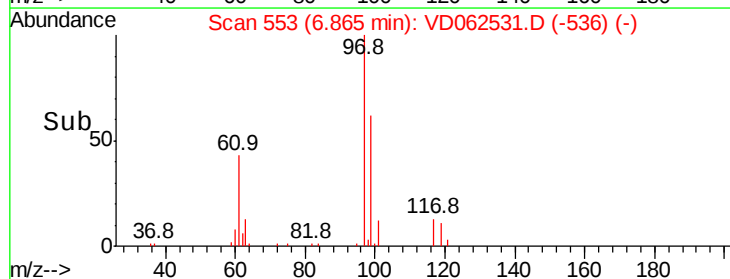
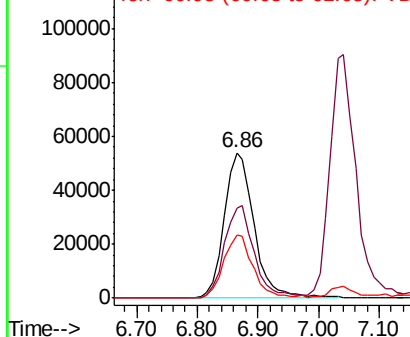
97 100

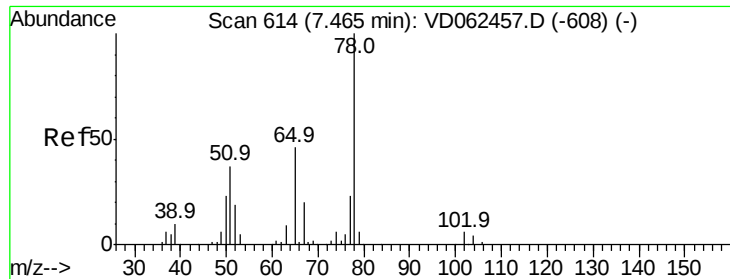
99 62.1 52.2 78.2

61 43.4 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

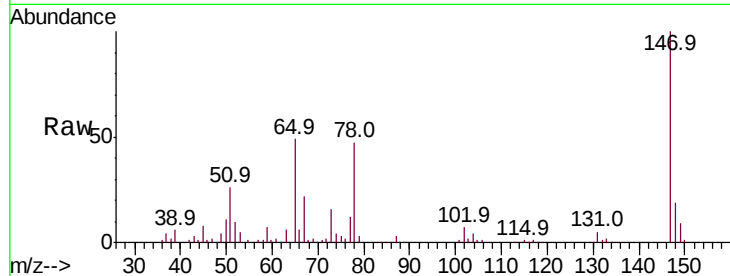




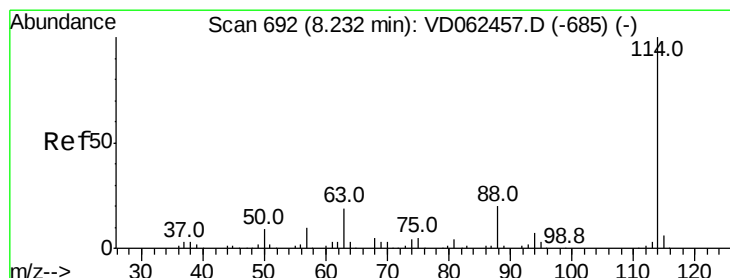
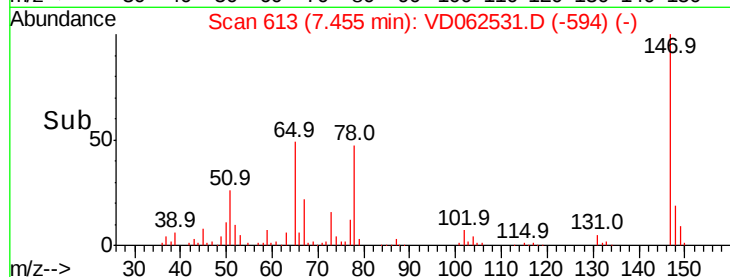
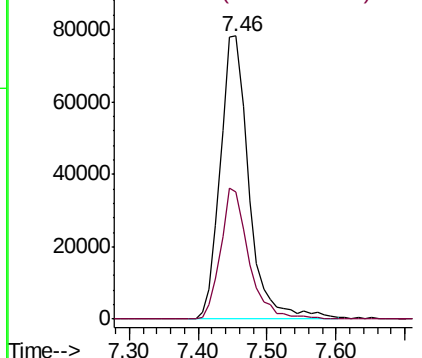
#33
 1,2-Dichloroethane-d4
 Concen: 49.824 ug/l
 RT: 7.46 min Scan# 613
 Delta R.T. -0.01 min
 Lab File: VD062531.D
 Acq: 24 May 2019 14:54

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0524SBS01

Tot Ion: 65 Resp: 226753
 Ion Ratio Lower Upper
 65 100
 67 44.9 0.0 98.0

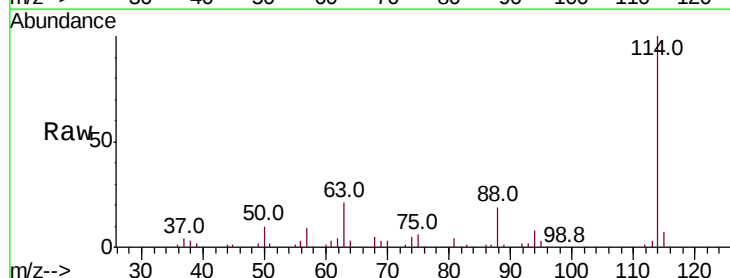


Abundance Ion 64.95 (64.65 to 65.65): VDC
 Ion 66.90 (66.60 to 67.60): VDC

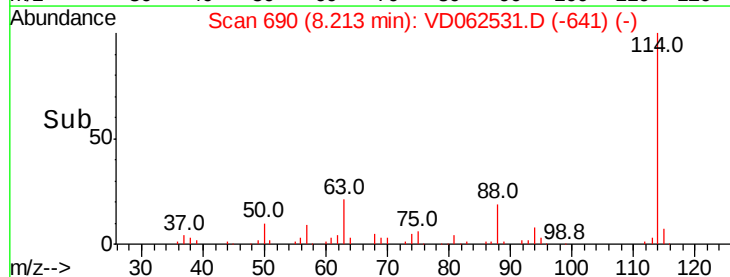
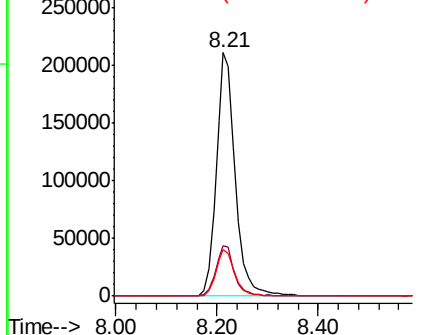


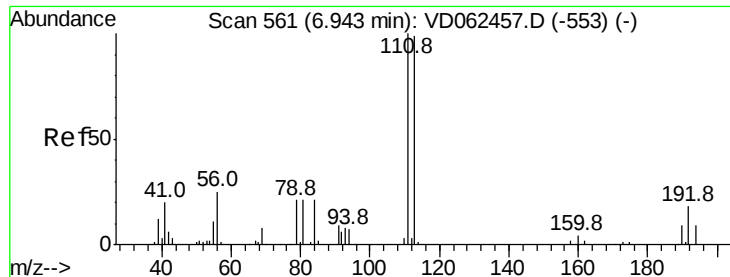
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 690
 Delta R.T. -0.02 min
 Lab File: VD062531.D
 Acq: 24 May 2019 14:54

Tgt Ion: 114 Resp: 552960
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 32.4
 88 19.3 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

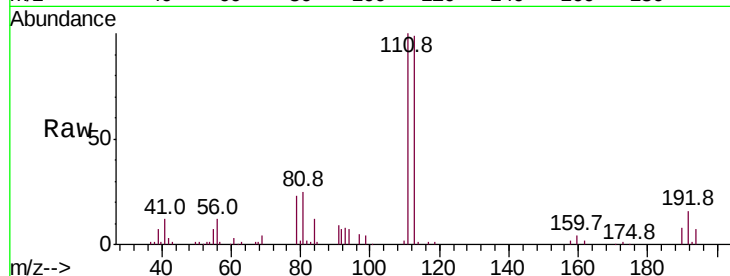




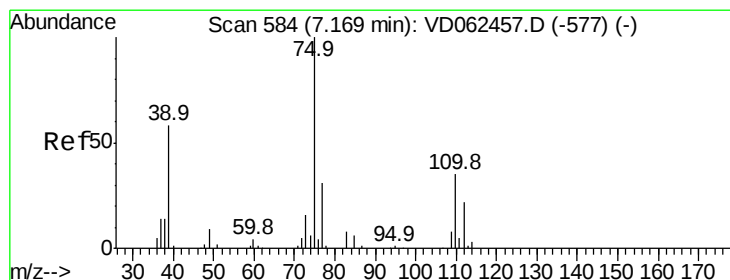
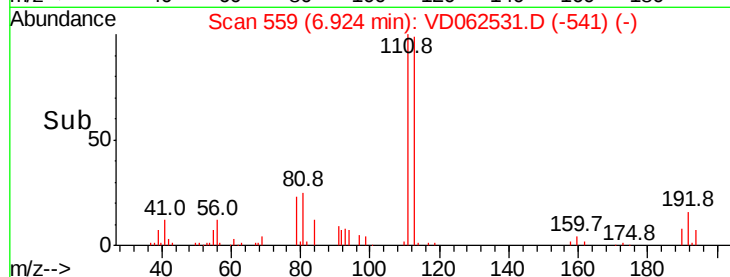
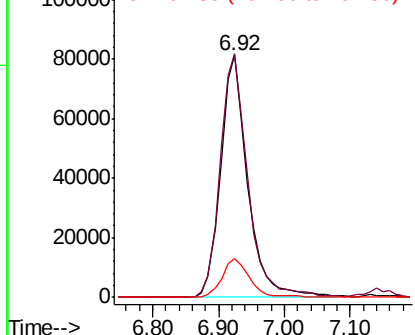
#35
 Dibromofluoromethane
 Concen: 46.596 ug/l
 RT: 6.92 min Scan# 559
 Delta R.T. -0.02 min
 Lab File: VD062531.D
 Acq: 24 May 2019 14:54

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0524SBS01

Tot Ion:113 Resp: 232439
 Ion Ratio Lower Upper
 113 100
 111 100.5 78.5 117.7
 192 15.8 13.0 19.4

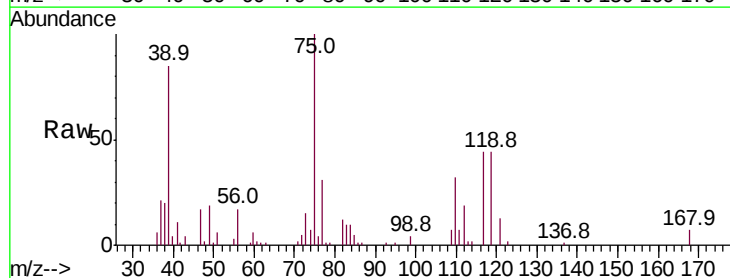


Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V

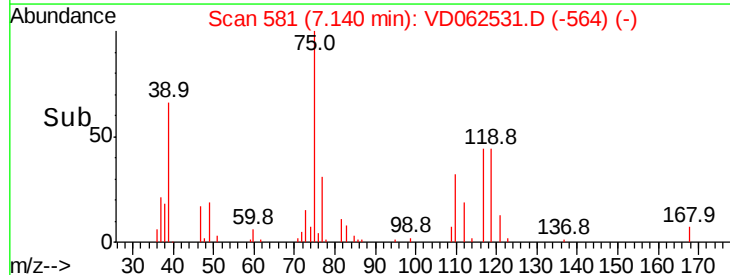
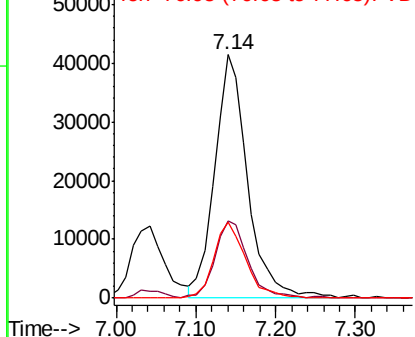


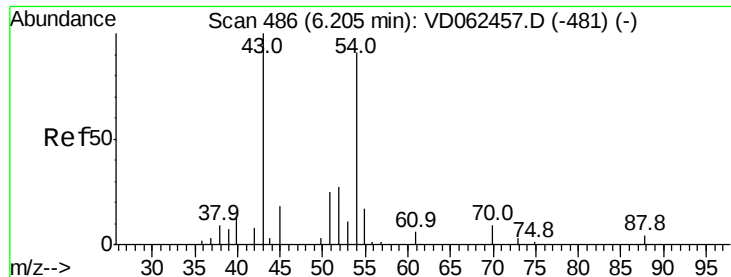
#36
 1,1-Dichloropropene
 Concen: 22.722 ug/l
 RT: 7.14 min Scan# 581
 Delta R.T. -0.03 min
 Lab File: VD062531.D
 Acq: 24 May 2019 14:54

Tgt Ion: 75 Resp: 120121
 Ion Ratio Lower Upper
 75 100
 110 31.9 19.1 57.1
 77 31.1 25.6 38.4



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

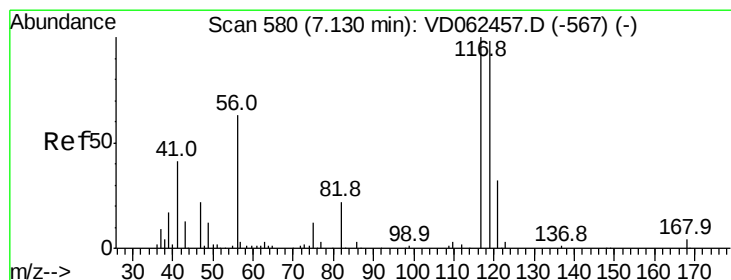
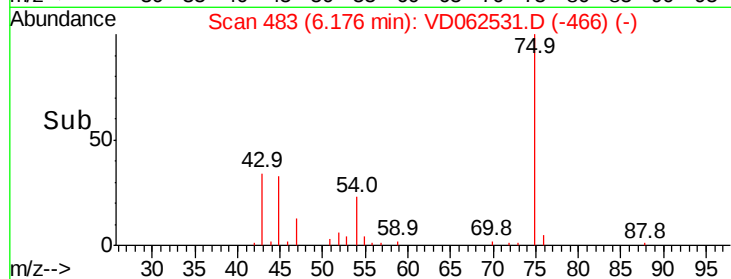
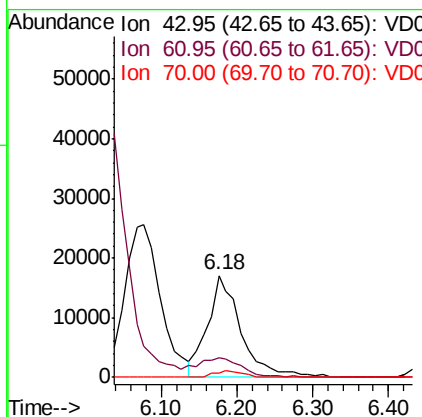
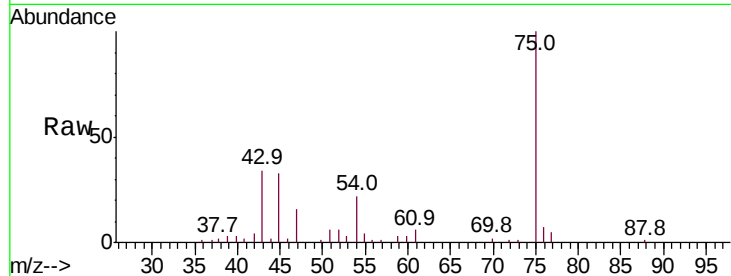




#37
Ethyl Acetate
Concen: 25.543 ug/l
RT: 6.18 min Scan# 483
Delta R.T. -0.03 min
Lab File: VD062531.D
Acq: 24 May 2019 14:54

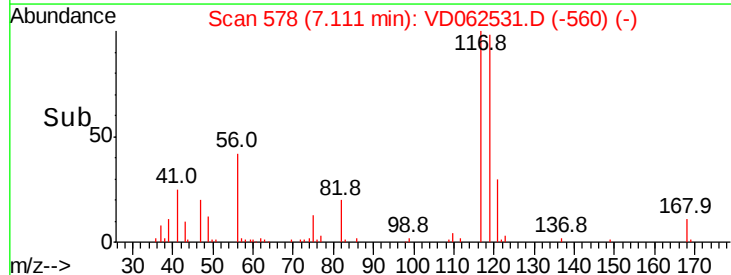
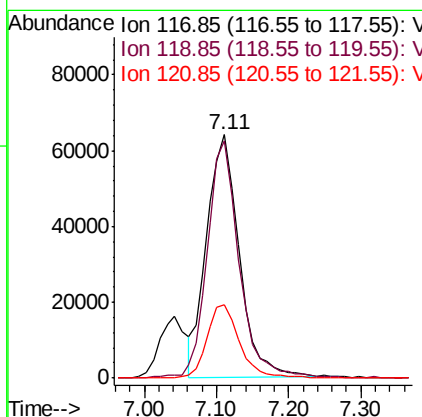
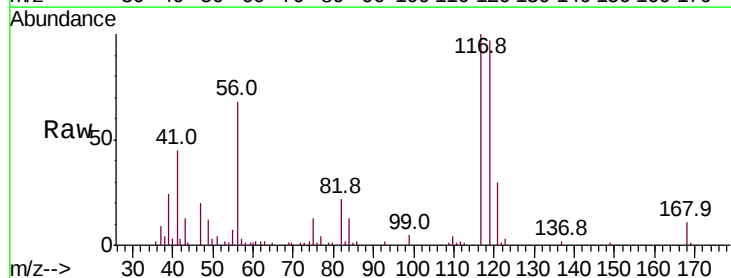
Instrument :
MSVOA_D
ClientSampleId :
VD0524SBS01

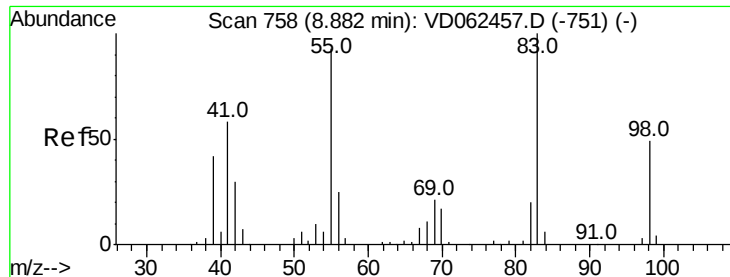
Tot Ion: 43 Resp: 52459
Ion Ratio Lower Upper
43 100
61 18.7 14.7 22.1
70 4.7 7.8 11.6#



#38
Carbon Tetrachloride
Concen: 25.422 ug/l
RT: 7.11 min Scan# 578
Delta R.T. -0.02 min
Lab File: VD062531.D
Acq: 24 May 2019 14:54

Tgt Ion: 117 Resp: 199742
Ion Ratio Lower Upper
117 100
119 97.4 75.8 113.8
121 30.3 25.9 38.9

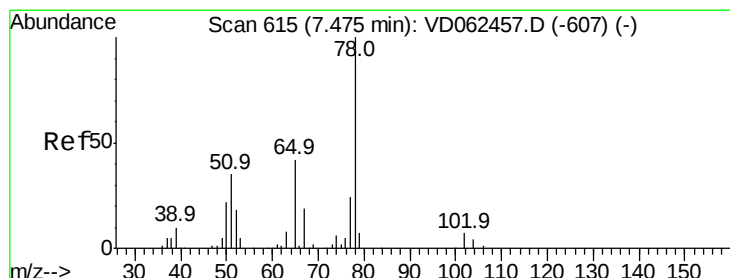
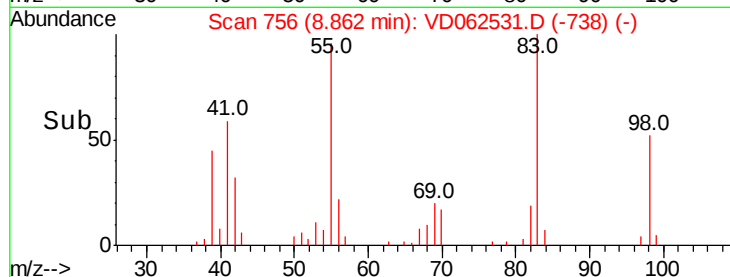
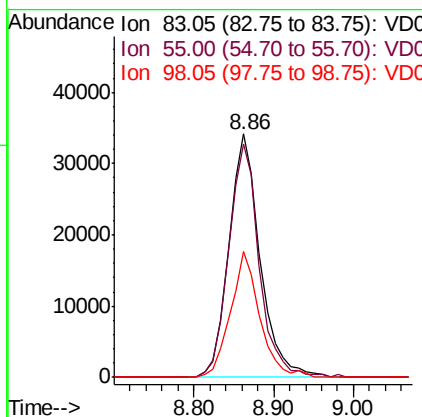
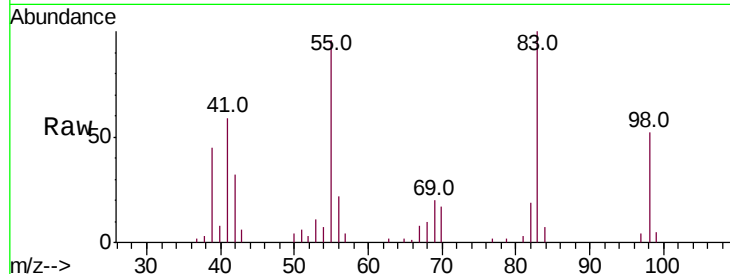




#39
Methvlcvclohexane
Concen: 21.392 ug/l
RT: 8.86 min Scan# 756
Delta R.T. -0.02 min
Lab File: VD062531.D
Acq: 24 May 2019 14:54

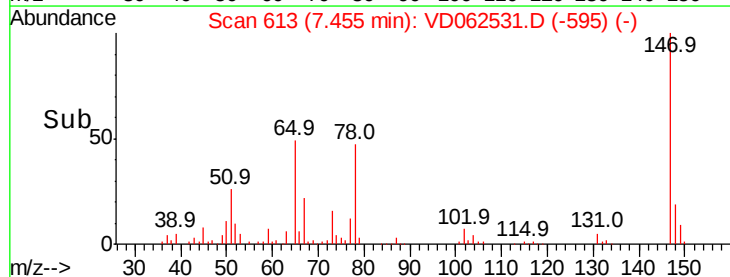
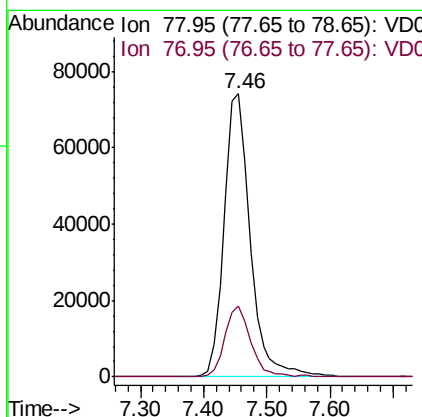
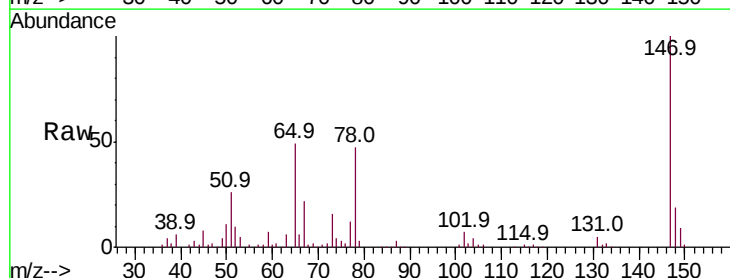
Instrument :
MSVOA_D
ClientSampleId :
VD0524SBS01

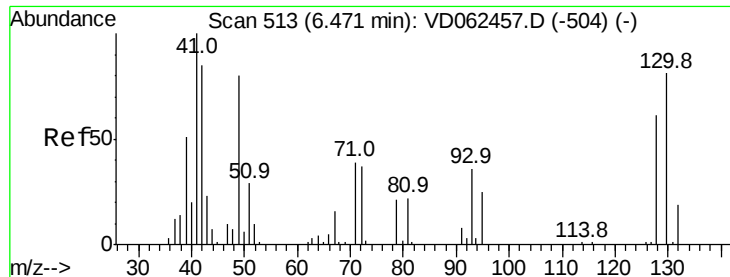
Tot Ion: 83 Resp: 93279
Ion Ratio Lower Upper
83 100
55 95.8 68.2 102.4
98 51.9 38.2 57.4



#40
Benzene
Concen: 20.545 ug/l
RT: 7.46 min Scan# 613
Delta R.T. -0.02 min
Lab File: VD062531.D
Acq: 24 May 2019 14:54

Tgt Ion: 78 Resp: 213054
Ion Ratio Lower Upper
78 100
77 25.2 19.7 29.5





#41

Methacrylonitrile

Concen: 21.528 ug/l

RT: 6.44 min Scan# 510

Delta R.T. -0.03 min

Lab File: VD062531.D

Acq: 24 May 2019 14:54

Instrument :

MSVOA_D

ClientSampleId :

VD0524SBS01

Tot Ion: 41 Resp: 55529

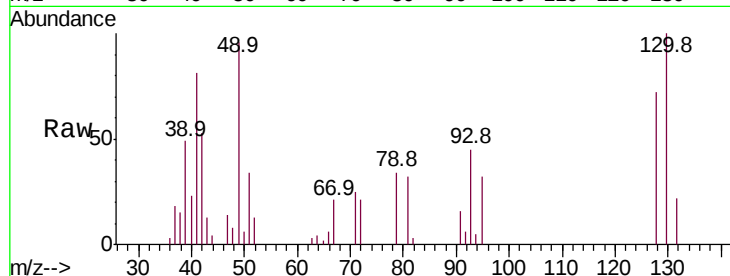
Ion Ratio Lower Upper

41 100

39 60.8 34.1 51.1#

67 25.2 23.8 35.6

52 15.6 8.8 13.2#

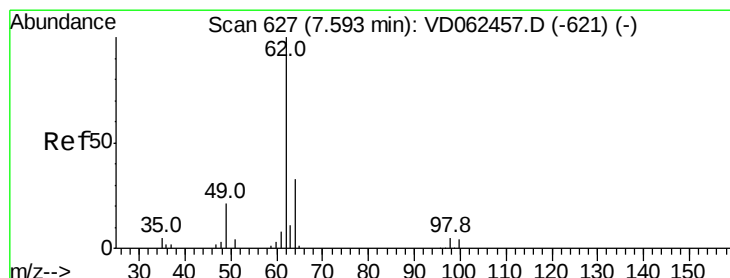
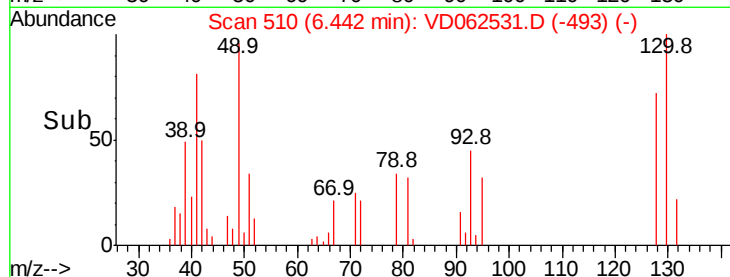
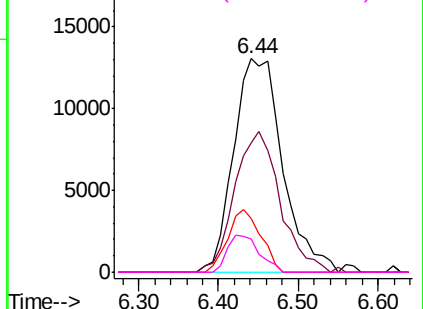


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



#42

1,2-Dichloroethane

Concen: 24.158 ug/l

RT: 7.57 min Scan# 625

Delta R.T. -0.02 min

Lab File: VD062531.D

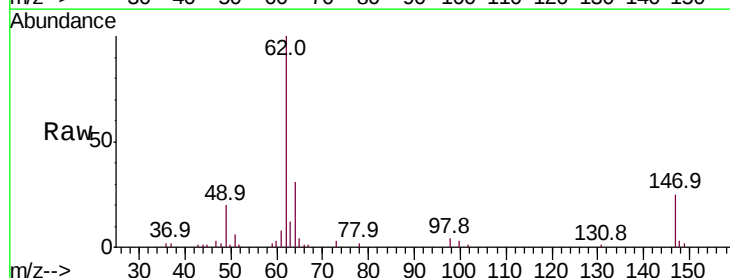
Acq: 24 May 2019 14:54

Tgt Ion: 62 Resp: 132655

Ion Ratio Lower Upper

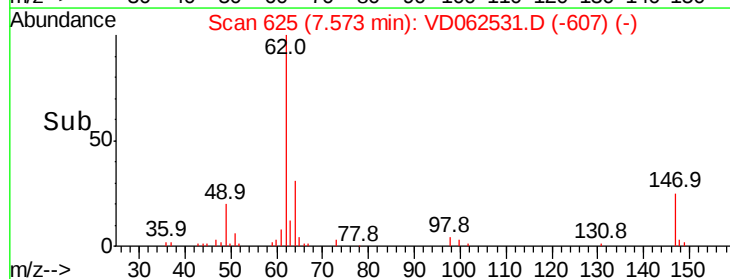
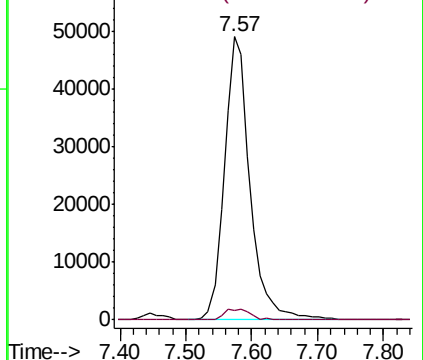
62 100

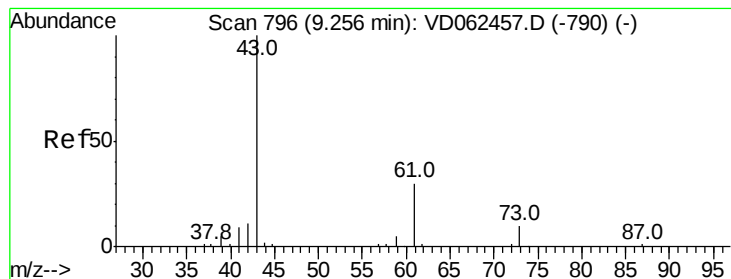
98 3.5 0.0 17.8



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 97.85 (97.55 to 98.55): VDC





#43

Isopropyl Acetate

Concen: 21.072 ug/l

RT: 9.25 min Scan# 795

Delta R.T. -0.01 min

Lab File: VD062531.D

Acq: 24 May 2019 14:54

Instrument :

MSVOA_D

ClientSampleId :

VD0524SBS01

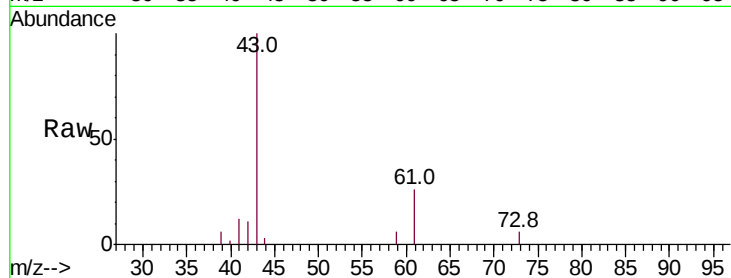
Tot Ion: 43 Resp: 57411

Ion Ratio Lower Upper

43 100

61 26.1 25.1 37.7

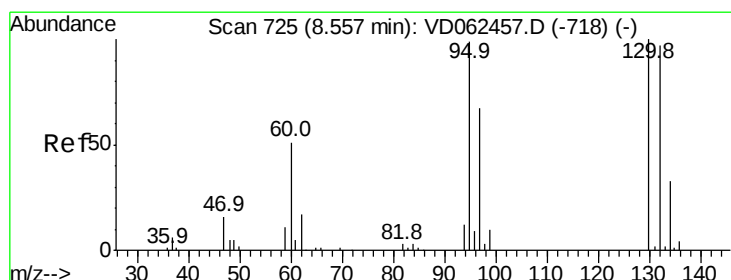
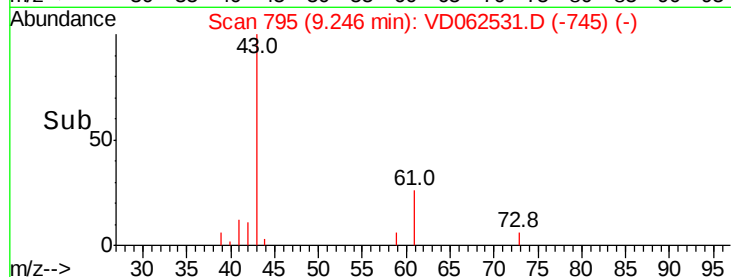
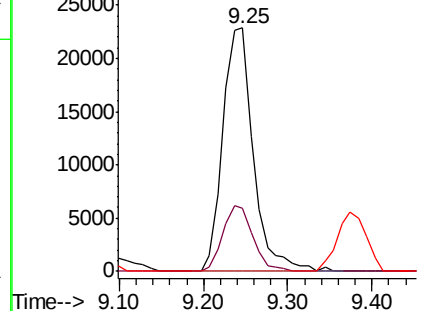
87 0.0 0.0 0.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 87.00 (86.70 to 87.70): VDC



#44

Trichloroethene

Concen: 21.554 ug/l

RT: 8.54 min Scan# 723

Delta R.T. -0.02 min

Lab File: VD062531.D

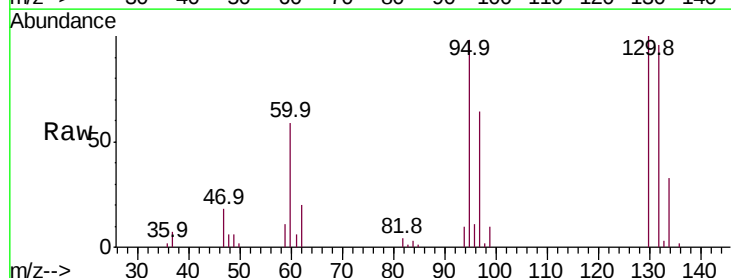
Acq: 24 May 2019 14:54

Tgt Ion: 130 Resp: 89492

Ion Ratio Lower Upper

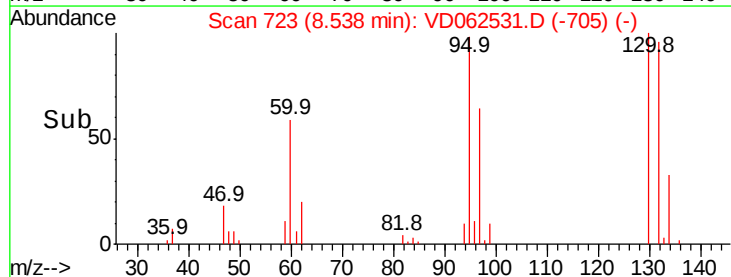
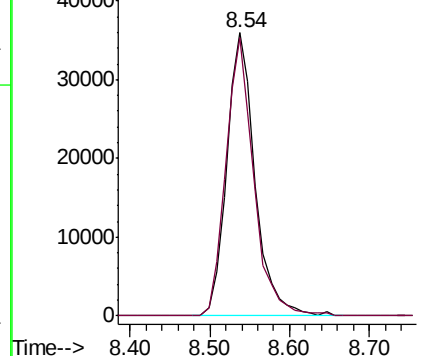
130 100

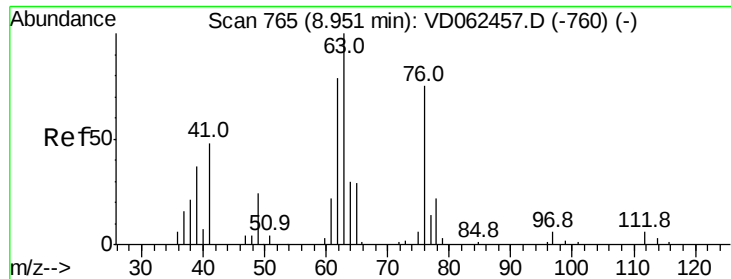
95 98.1 0.0 174.0



Abundance Ion 129.80 (129.50 to 130.50): VDC

Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 20.377 ug/l

RT: 8.94 min Scan# 764

Delta R.T. -0.01 min

Lab File: VD062531.D

Acq: 24 May 2019 14:54

Instrument :

MSVOA_D

ClientSampleId :

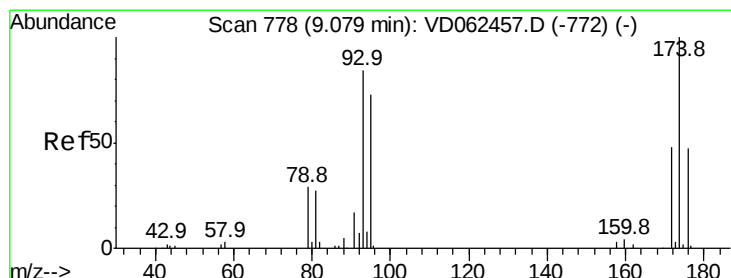
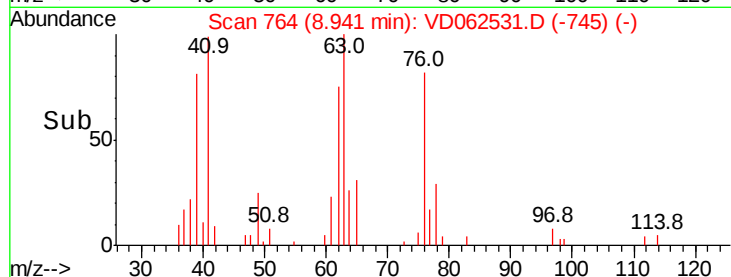
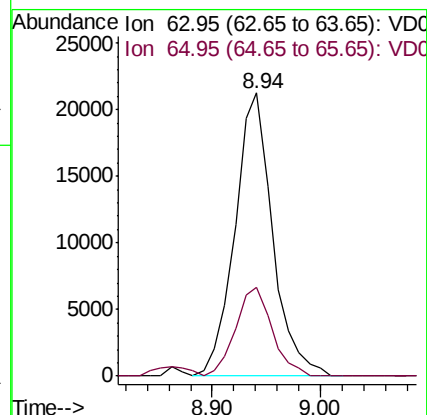
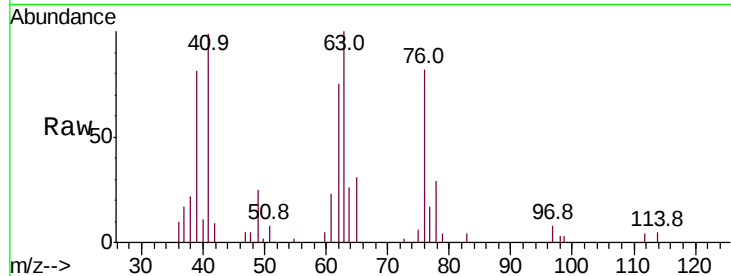
VD0524SBS01

Tot Ion: 63 Resp: 51496

Ion Ratio Lower Upper

63 100

65 31.5 23.8 35.6



#46

Dibromomethane

Concen: 22.619 ug/l

RT: 9.06 min Scan# 776

Delta R.T. -0.02 min

Lab File: VD062531.D

Acq: 24 May 2019 14:54

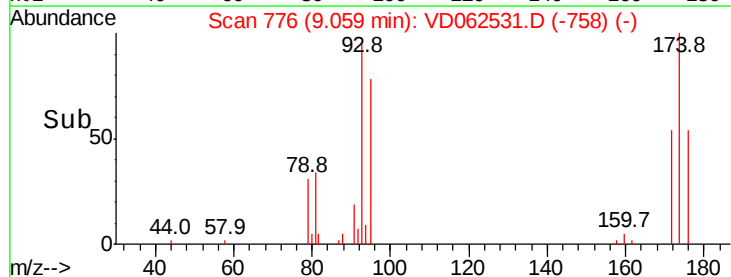
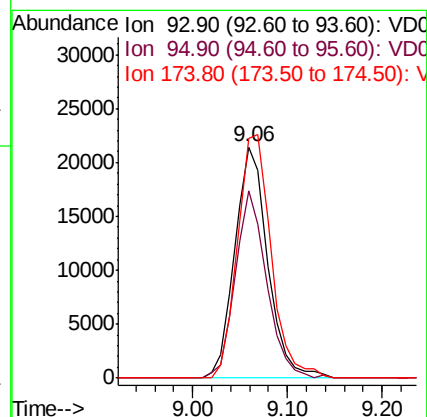
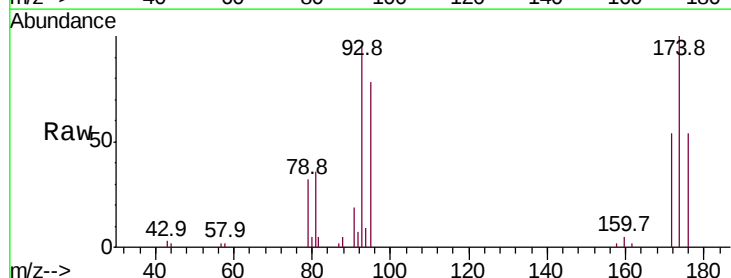
Tgt Ion: 93 Resp: 51814

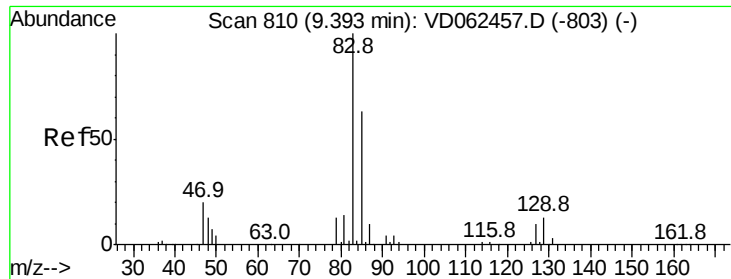
Ion Ratio Lower Upper

93 100

95 80.9 64.8 97.2

174 104.0 79.3 118.9





#47

Bromodichloromethane

Concen: 23.026 ug/l

RT: 9.37 min Scan# 808

Delta R.T. -0.02 min

Lab File: VD062531.D

Acq: 24 May 2019 14:54

Instrument :

MSVOA_D

ClientSampleId :

VD0524SBS01

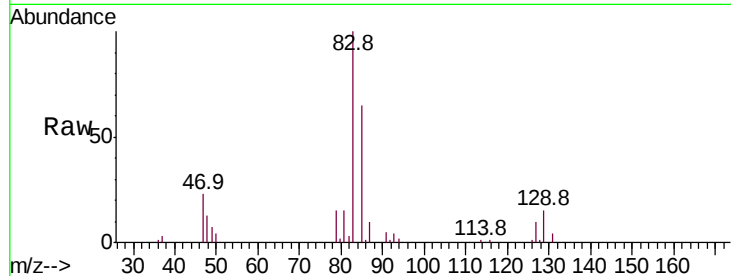
Tot Ion: 83 Resp: 134182

Ion Ratio Lower Upper

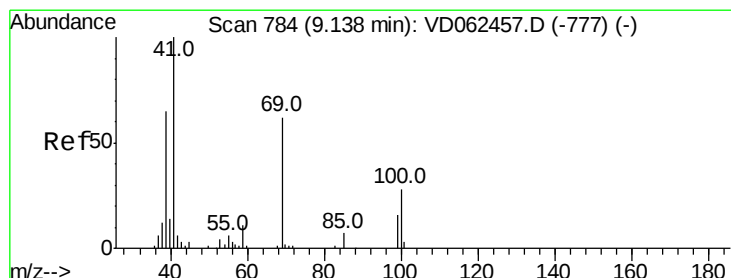
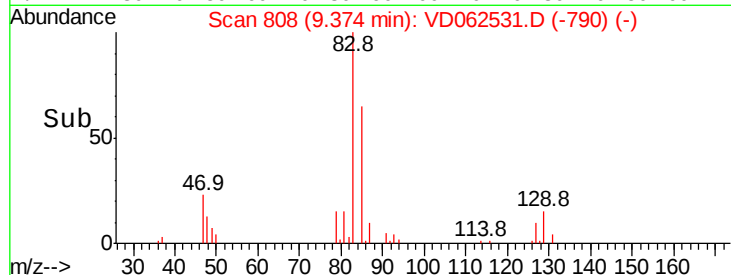
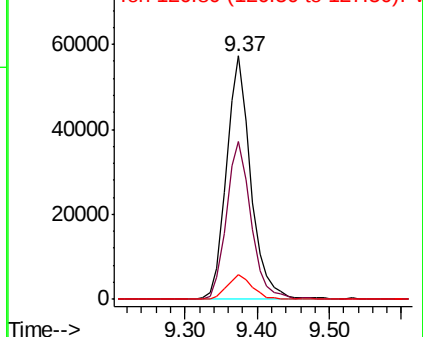
83 100

85 65.0 50.9 76.3

127 10.3 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: 22.723 ug/l

RT: 9.12 min Scan# 782

Delta R.T. -0.02 min

Lab File: VD062531.D

Acq: 24 May 2019 14:54

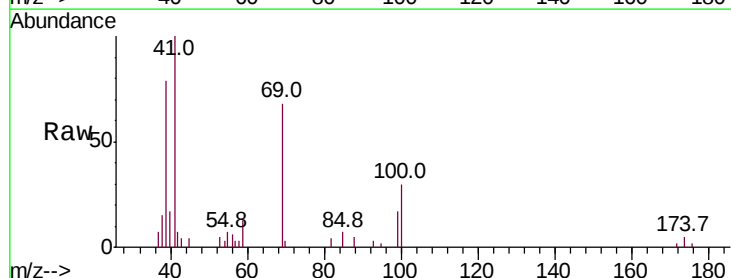
Tgt Ion: 41 Resp: 41662

Ion Ratio Lower Upper

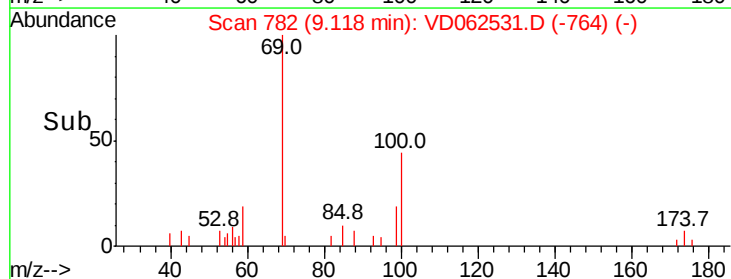
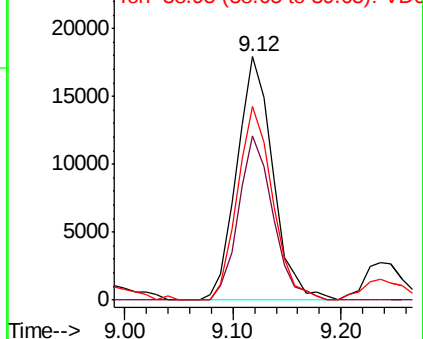
41 100

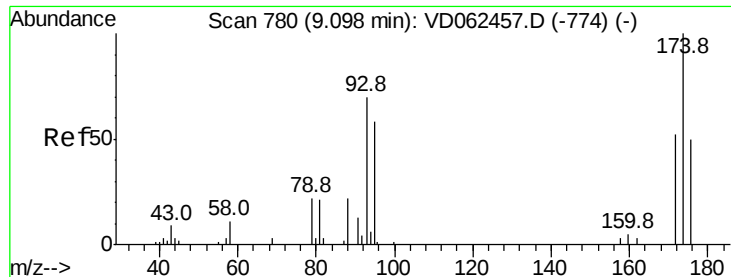
69 67.6 64.2 96.2

39 79.4 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

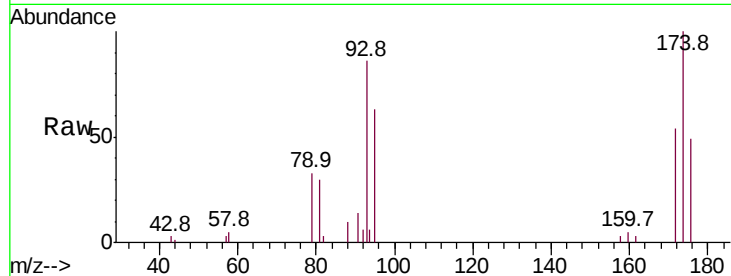




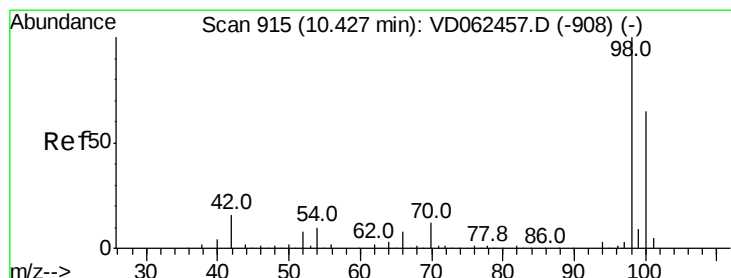
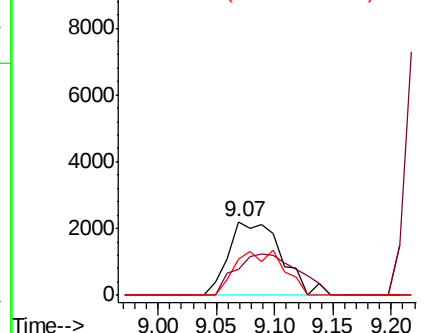
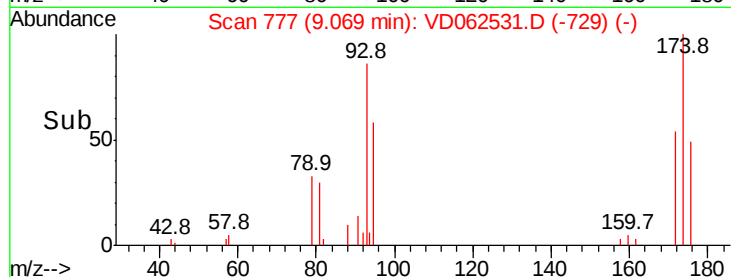
#49
 1,4-Dioxane
 Concen: 420.897 ug/l
 RT: 9.07 min Scan# 777
 Delta R.T. -0.03 min
 Lab File: VD062531.D
 Acq: 24 May 2019 14:54

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0524SBS01

Tot Ion: 88 Resp: 6922
 Ion Ratio Lower Upper
 88 100
 43 35.4 23.4 35.0#
 58 49.4 44.0 66.0

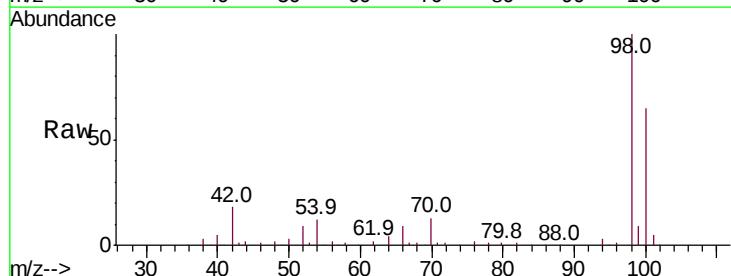


Abundance Ion 88.00 (87.70 to 88.70): VDC
 Ion 43.05 (42.75 to 43.75): VDC
 Ion 57.95 (57.65 to 58.65): VDC

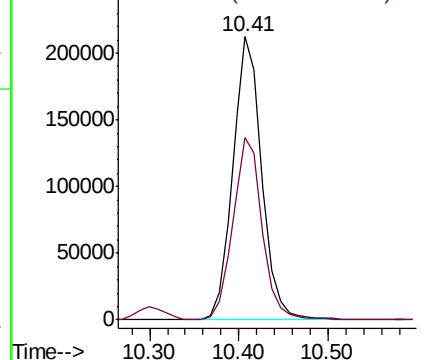
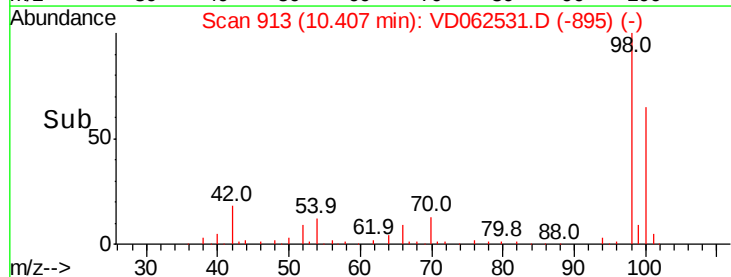


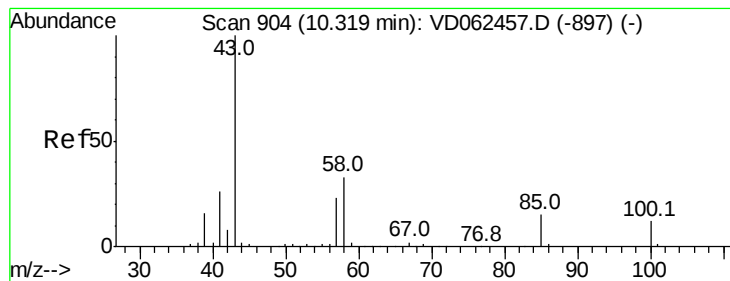
#50
 Toluene-d8
 Concen: 44.091 ug/l
 RT: 10.41 min Scan# 913
 Delta R.T. -0.02 min
 Lab File: VD062531.D
 Acq: 24 May 2019 14:54

Tgt Ion: 98 Resp: 481317
 Ion Ratio Lower Upper
 98 100
 100 64.6 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: 110.135 ug/l

RT: 10.30 min Scan# 902

Delta R.T. -0.02 min

Lab File: VD062531.D

Acq: 24 May 2019 14:54

Instrument :

MSVOA_D

ClientSampleID :

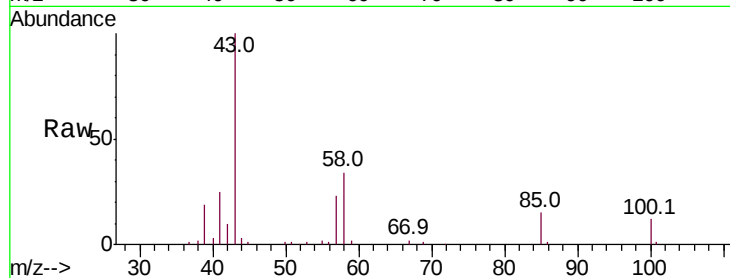
VD0524SBS01

Tot Ion: 43 Resp: 198233

Ion Ratio Lower Upper

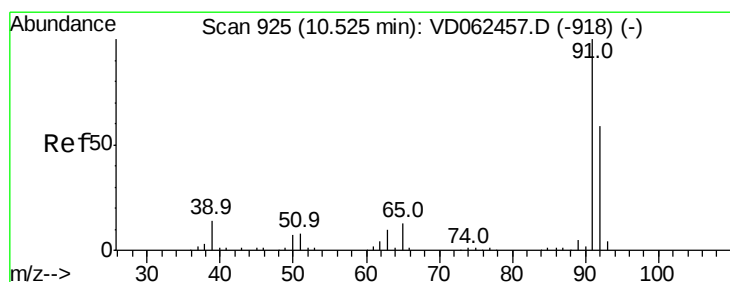
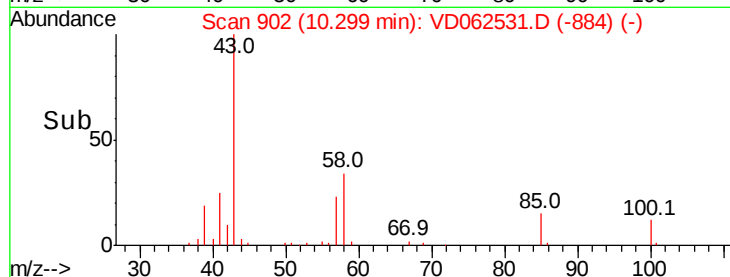
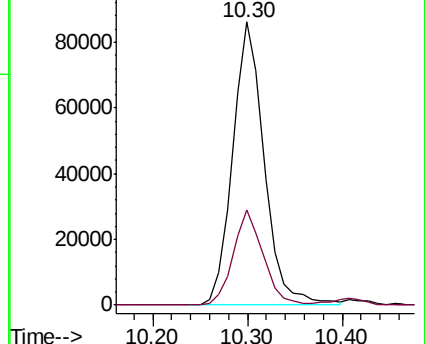
43 100

58 33.5 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: 20.804 ug/l

RT: 10.51 min Scan# 923

Delta R.T. -0.02 min

Lab File: VD062531.D

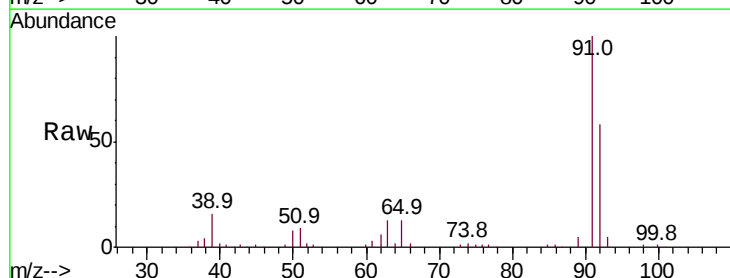
Acq: 24 May 2019 14:54

Tgt Ion: 92 Resp: 147689

Ion Ratio Lower Upper

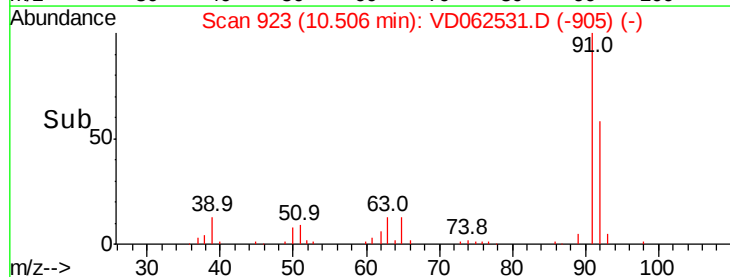
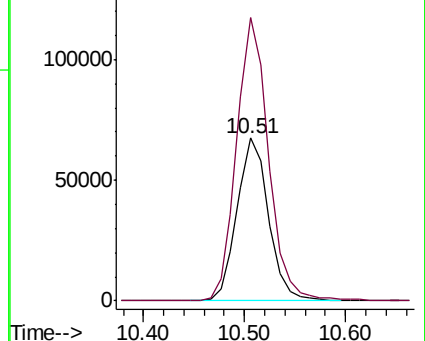
92 100

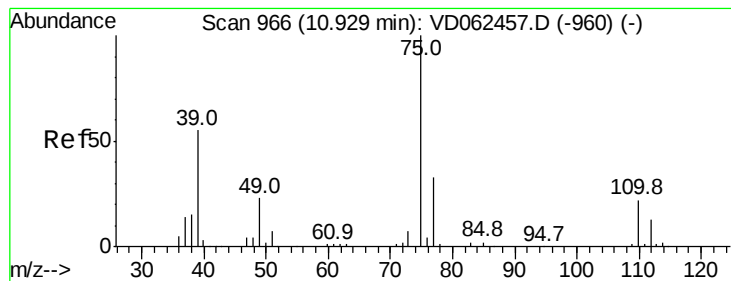
91 173.9 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





#53

t-1,3-Dichloropropene

Concen: 22.932 ug/l

RT: 10.91 min Scan# 964

Delta R.T. -0.02 min

Lab File: VD062531.D

Acq: 24 May 2019 14:54

Instrument :

MSVOA_D

ClientSampleId :

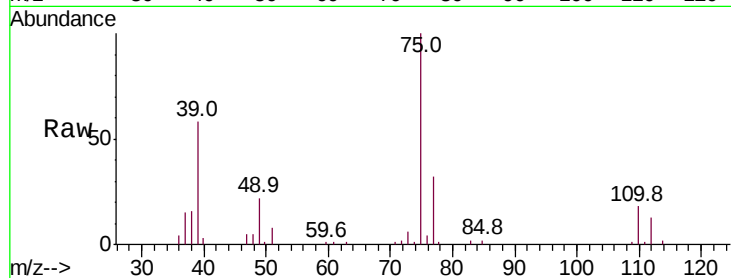
VD0524SBS01

Tot Ion: 75 Resp: 111259

Ion Ratio Lower Upper

75 100

77 31.5 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

10.91

60000

50000

40000

30000

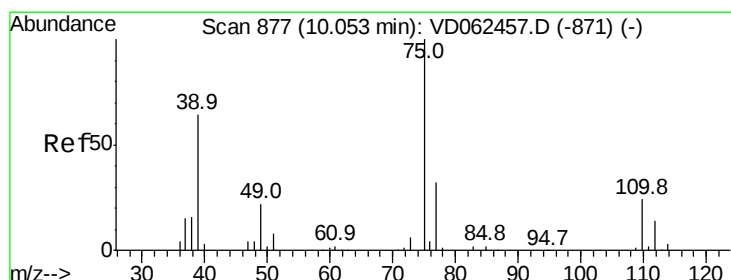
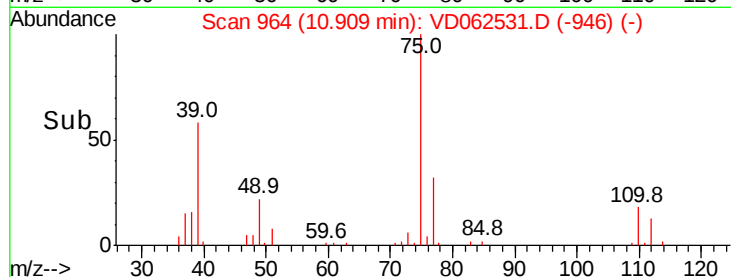
20000

10000

0

Time-->

10.80 10.90 11.00



#54

cis-1,3-Dichloropropene

Concen: 23.219 ug/l

RT: 10.03 min Scan# 875

Delta R.T. -0.02 min

Lab File: VD062531.D

Acq: 24 May 2019 14:54

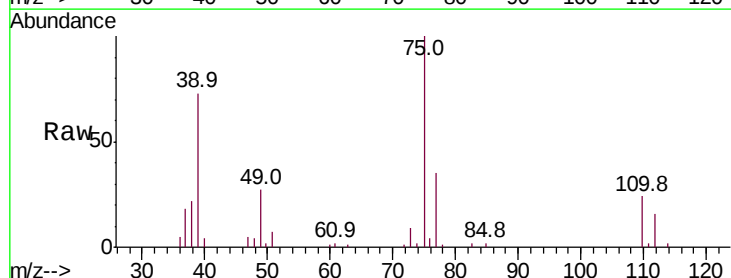
Tgt Ion: 75 Resp: 117543

Ion Ratio Lower Upper

75 100

77 35.5 25.5 38.3

39 73.1 39.4 59.2#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

10.03

60000

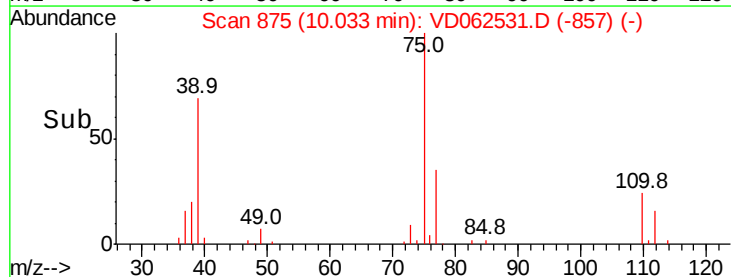
40000

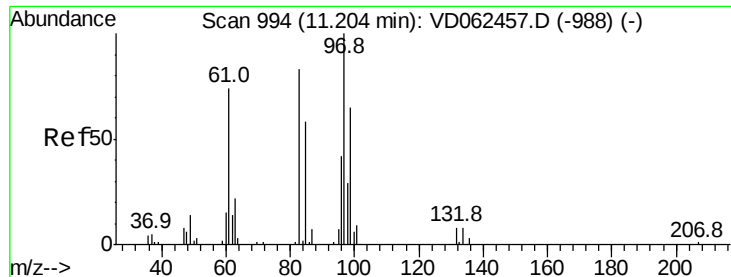
20000

0

Time-->

10.00 10.10





#55

1,1,2-Trichloroethane

Concen: 21.096 ug/l

RT: 11.18 min Scan# 992

Delta R.T. -0.02 min

Lab File: VD062531.D

Acq: 24 May 2019 14:54

Instrument :

MSVOA_D

ClientSampleId :

VD0524SBS01

Tot Ion: 97 Resp: 50758

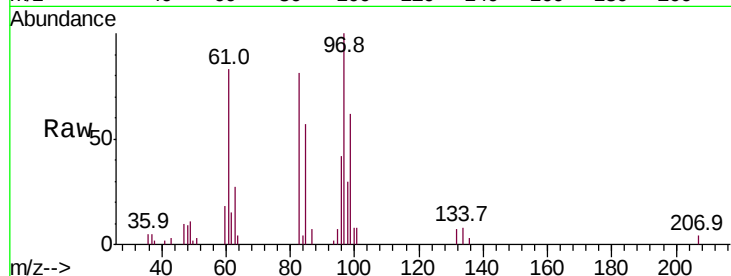
Ion Ratio Lower Upper

97 100

83 80.6 65.7 98.5

85 57.3 45.6 68.4

99 62.0 48.4 72.6

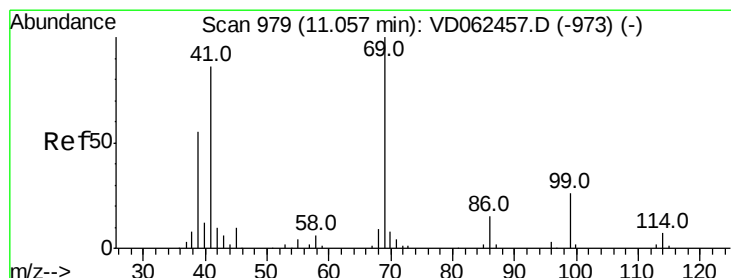
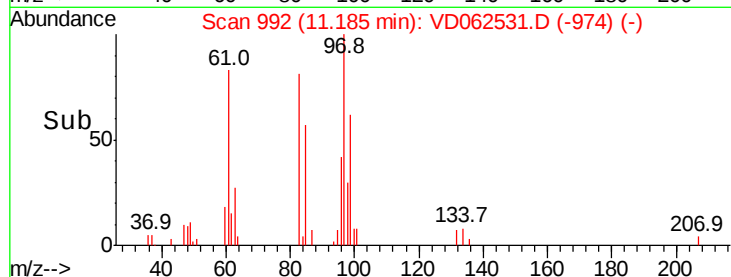
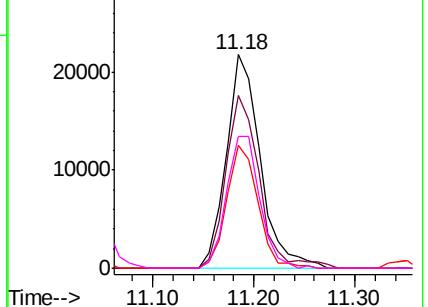


Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC



#56

Ethyl methacrylate

Concen: 20.961 ug/l

RT: 11.04 min Scan# 977

Delta R.T. -0.02 min

Lab File: VD062531.D

Acq: 24 May 2019 14:54

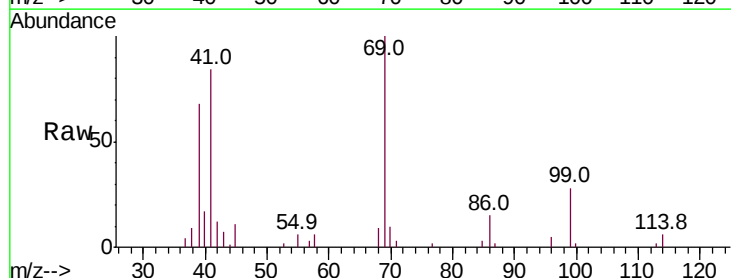
Tgt Ion: 69 Resp: 53914

Ion Ratio Lower Upper

69 100

41 84.4 56.3 84.5

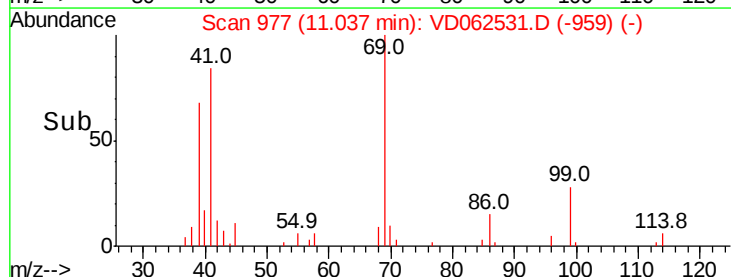
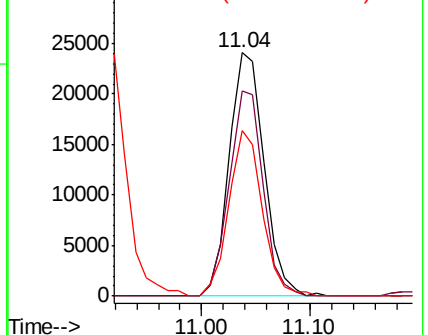
39 67.9 29.4 44.2#

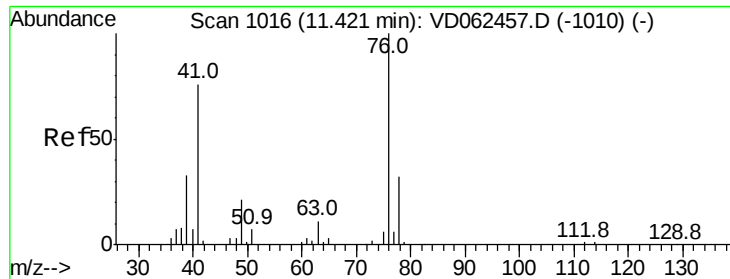


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC





#57

1,3-Dichloropropane

Concen: 20.665 ug/l

RT: 11.41 min Scan# 1015

Delta R.T. -0.01 min

Lab File: VD062531.D

Acq: 24 May 2019 14:54

Instrument :

MSVOA_D

ClientSampleId :

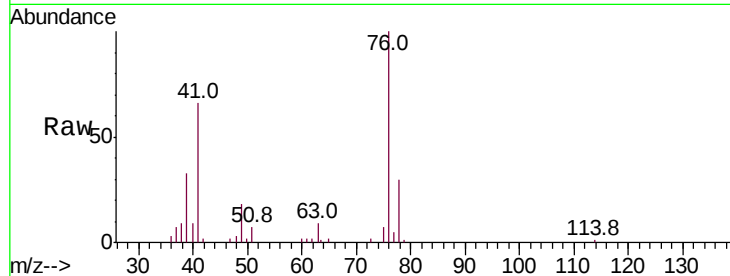
VD0524SBS01

Tot Ion: 76 Resp: 76251

Ion Ratio Lower Upper

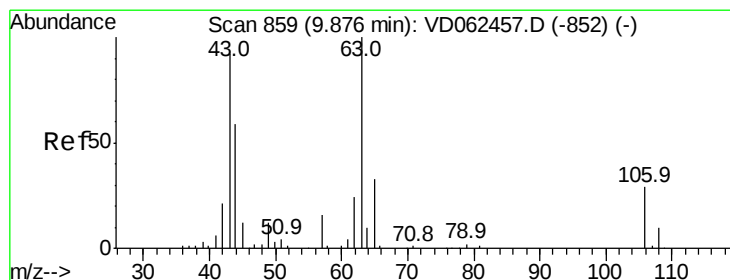
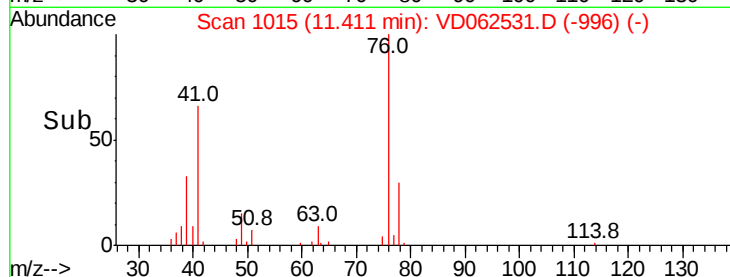
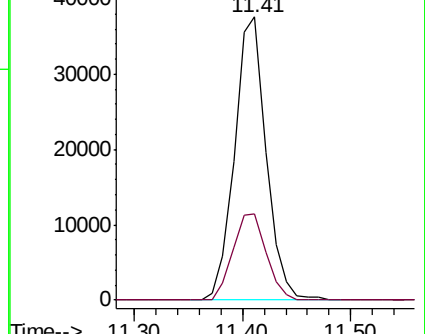
76 100

78 30.4 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: 117.148 ug/l

RT: 9.86 min Scan# 857

Delta R.T. -0.02 min

Lab File: VD062531.D

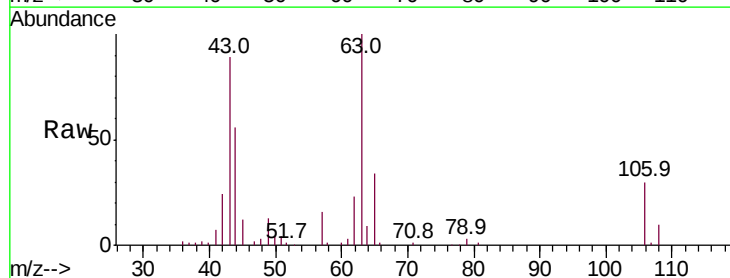
Acq: 24 May 2019 14:54

Tgt Ion: 63 Resp: 154722

Ion Ratio Lower Upper

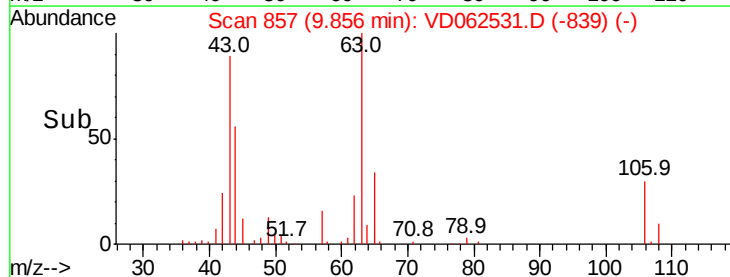
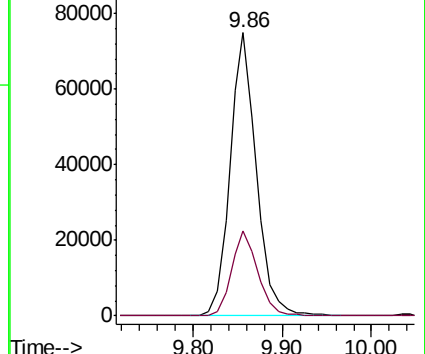
63 100

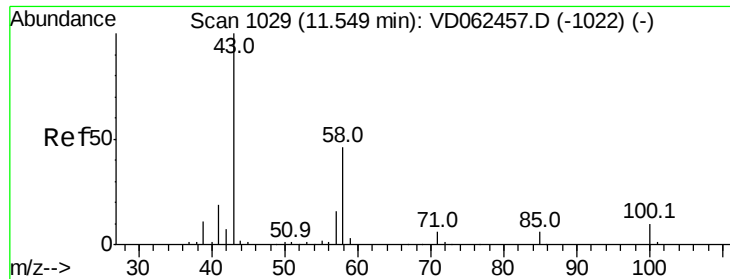
106 30.2 22.6 34.0



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V





#59

2-Hexanone

Concen: 108.041 ug/l

RT: 11.53 min Scan# 1027

Delta R.T. -0.02 min

Lab File: VD062531.D

Acq: 24 May 2019 14:54

Instrument :

MSVOA_D

ClientSampleId :

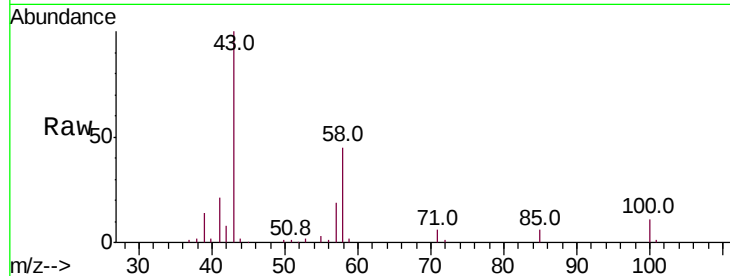
VD0524SBS01

Tot Ion: 43 Resp: 141332

Ion Ratio Lower Upper

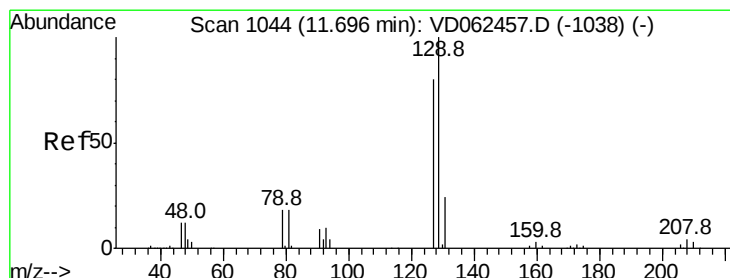
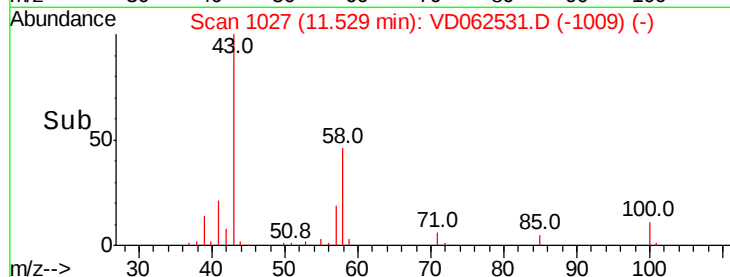
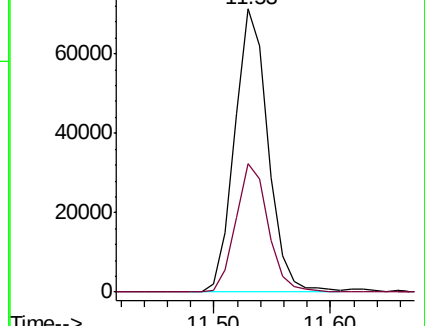
43 100

58 45.2 25.4 76.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#60

Dibromochloromethane

Concen: 23.462 ug/l

RT: 11.69 min Scan# 1043

Delta R.T. -0.01 min

Lab File: VD062531.D

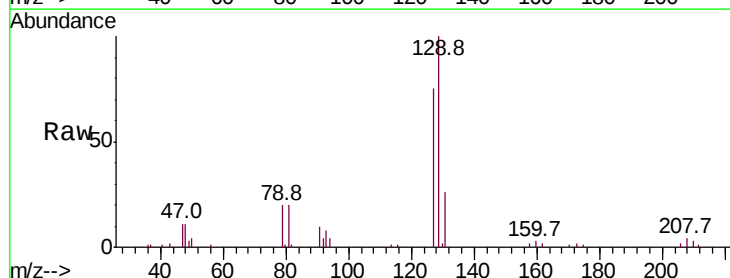
Acq: 24 May 2019 14:54

Tgt Ion: 129 Resp: 108422

Ion Ratio Lower Upper

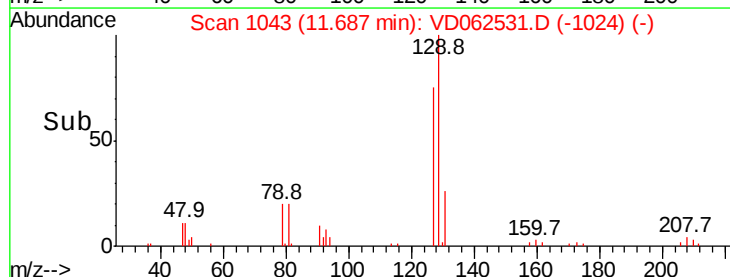
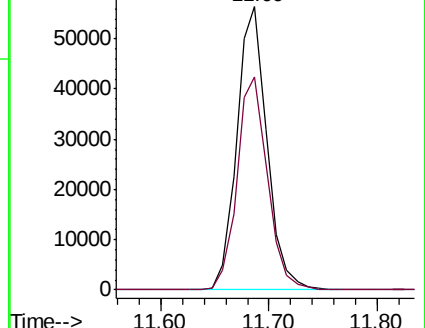
129 100

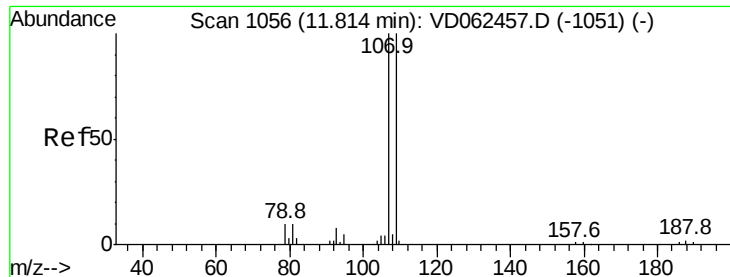
127 75.4 38.0 113.9



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

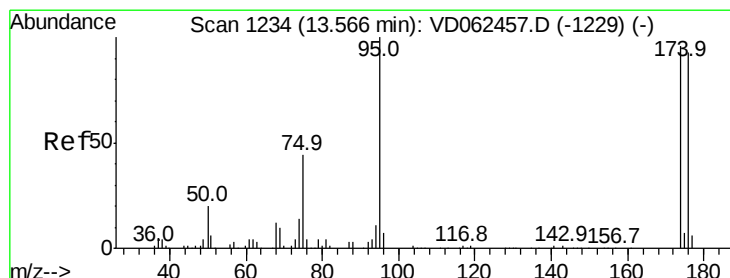
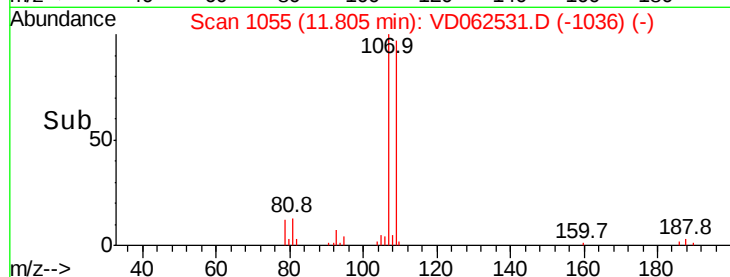
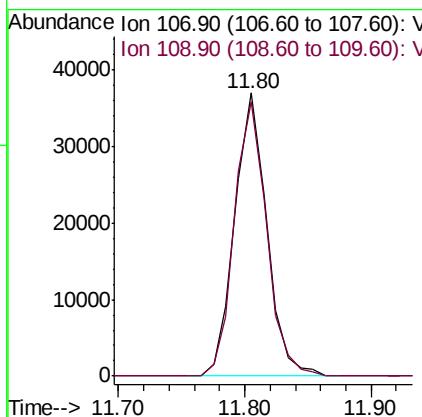
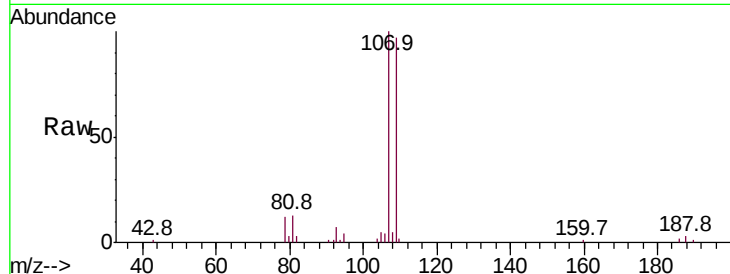




#61
 1,2-Dibromoethane
 Concen: 21.954 ug/l
 RT: 11.80 min Scan# 1055
 Delta R.T. -0.01 min
 Lab File: VD062531.D
 Acq: 24 May 2019 14:54

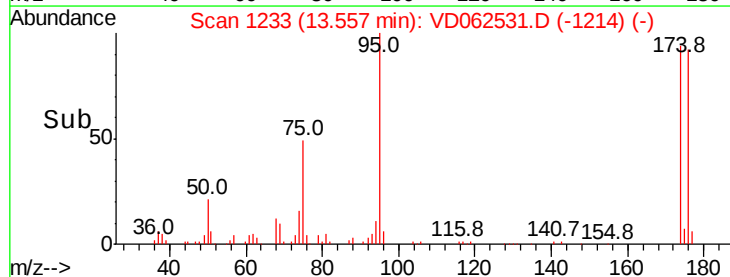
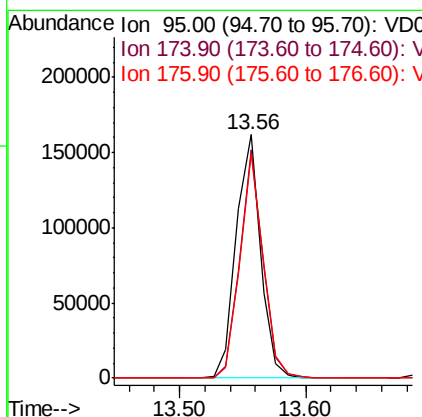
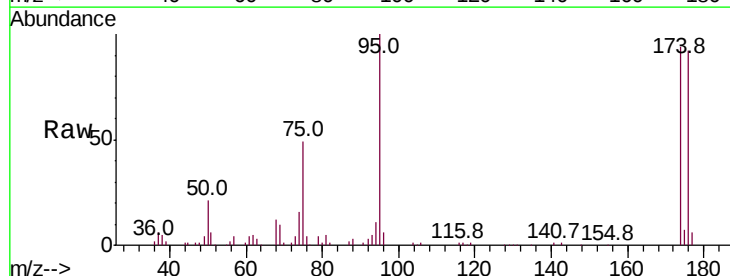
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0524SBS01

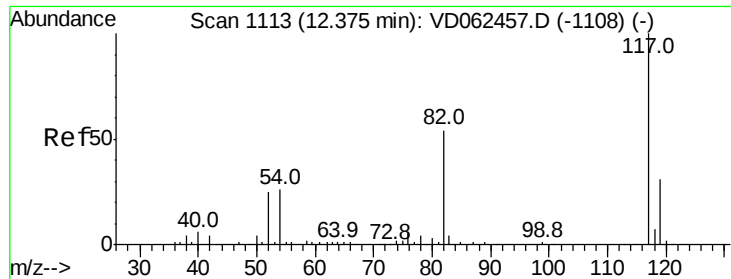
Tot Ion:107 Resp: 65095
 Ion Ratio Lower Upper
 107 100
 109 97.2 78.3 117.5



#62
 4-Bromofluorobenzene
 Concen: 44.975 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. -0.01 min
 Lab File: VD062531.D
 Acq: 24 May 2019 14:54

Tgt Ion: 95 Resp: 214766
 Ion Ratio Lower Upper
 95 100
 174 94.0 0.0 181.8
 176 92.4 0.0 174.4

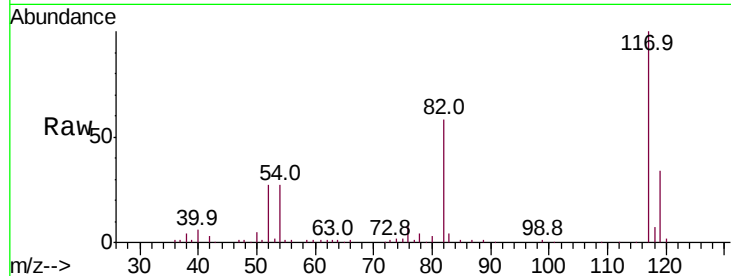




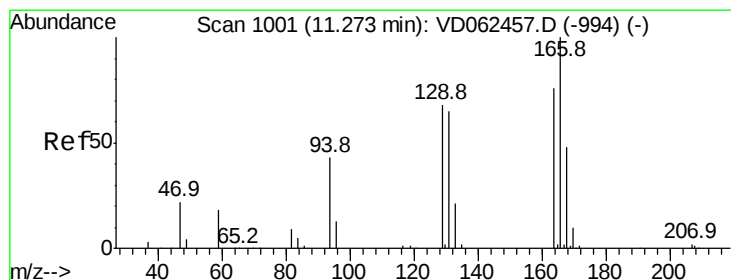
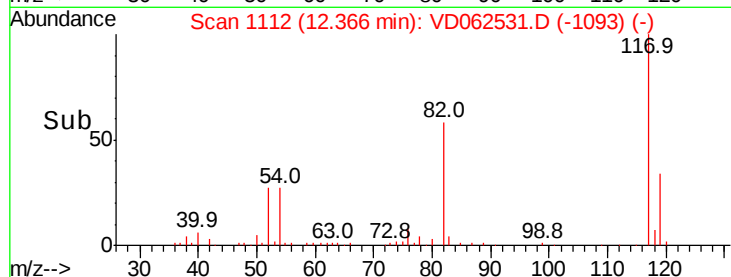
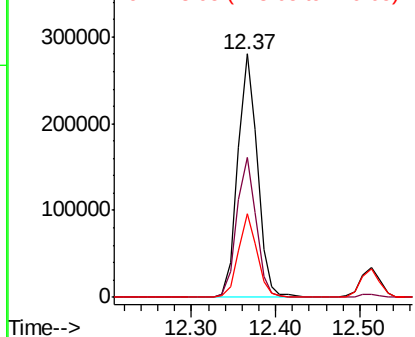
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. -0.01 min
Lab File: VD062531.D
Acq: 24 May 2019 14:54

Instrument :
MSVOA_D
ClientSampleId :
VD0524SBS01

Tot Ion:117 Resp: 454876
Ion Ratio Lower Upper
117 100
82 57.6 36.2 54.2#
119 34.3 26.2 39.4

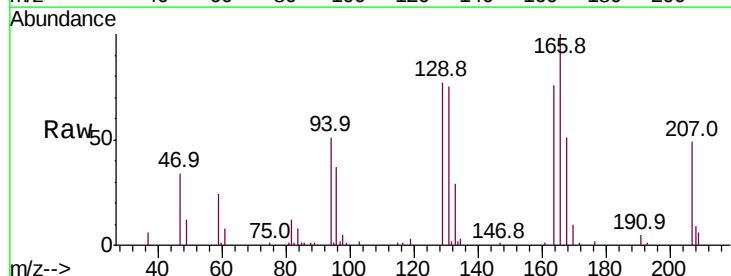


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

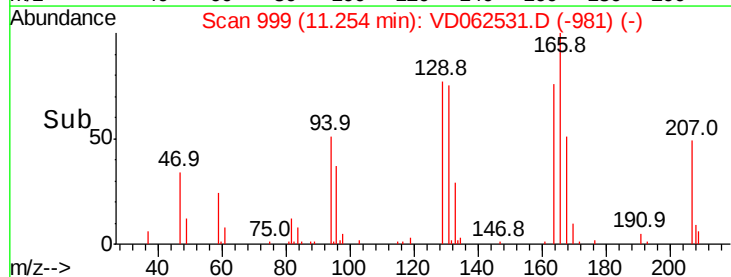
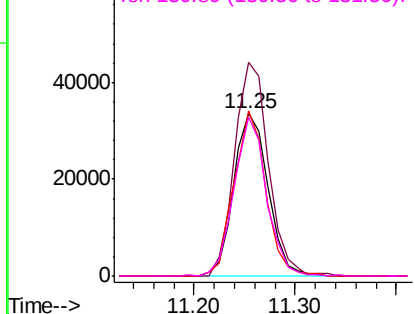


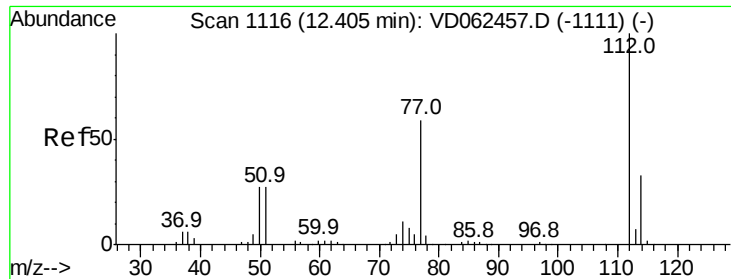
#64
Tetrachloroethene
Concen: 20.836 ug/l
RT: 11.25 min Scan# 999
Delta R.T. -0.02 min
Lab File: VD062531.D
Acq: 24 May 2019 14:54

Tgt Ion:164 Resp: 79358
Ion Ratio Lower Upper
164 100
166 131.6 101.5 152.3
129 101.5 74.6 112.0
131 98.2 72.6 108.8



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

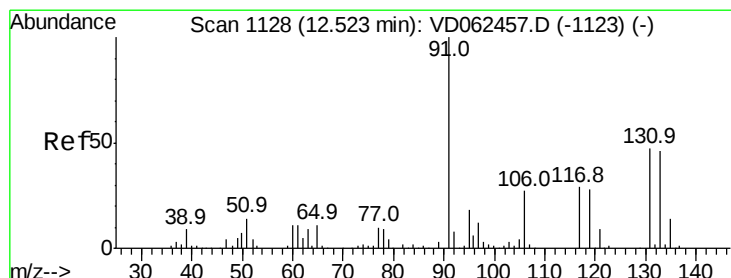
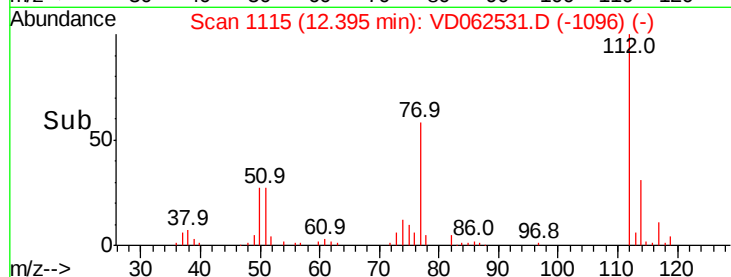
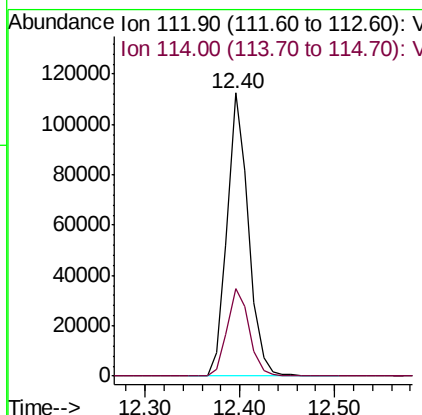
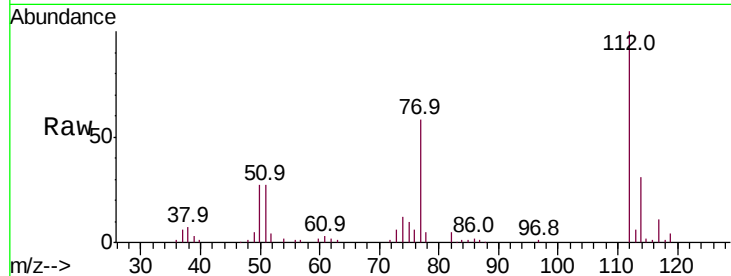




#65
Chlorobenzene
Concen: 20.042 ug/l
RT: 12.40 min Scan# 1115
Delta R.T. -0.01 min
Lab File: VD062531.D
Acq: 24 May 2019 14:54

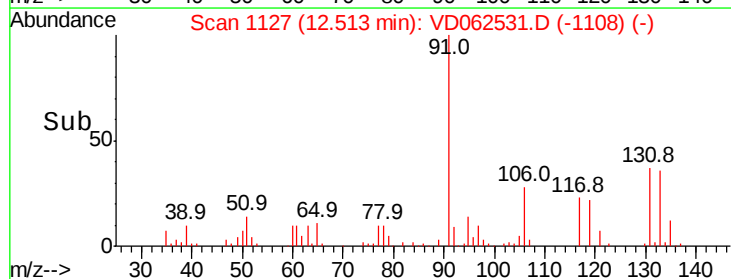
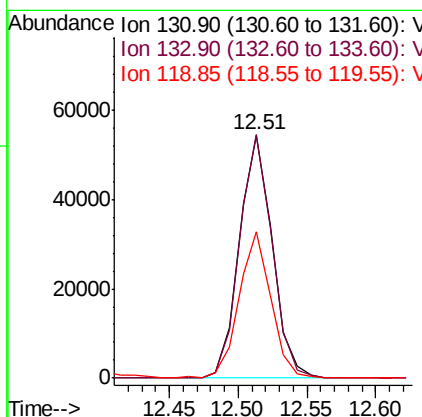
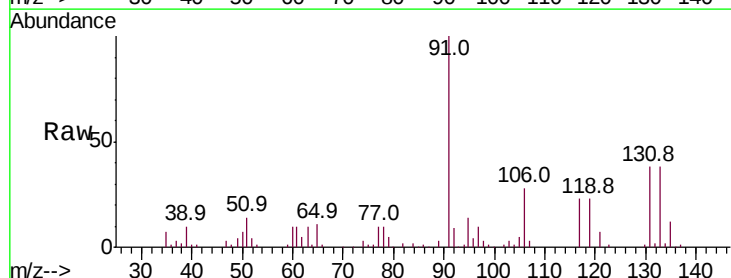
Instrument :
MSVOA_D
ClientSampleId :
VD0524SBS01

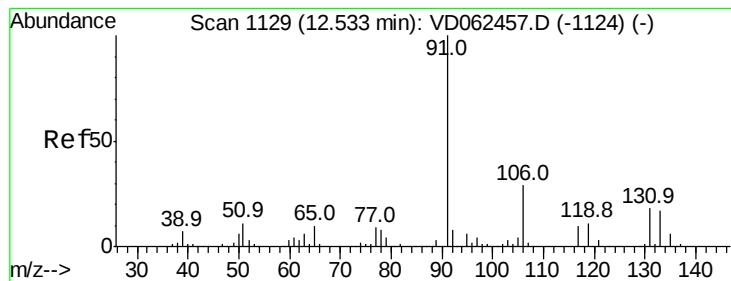
Tot Ion:112 Resp: 175317
Ion Ratio Lower Upper
112 100
114 30.7 25.8 38.8



#66
1,1,1,2-Tetrachloroethane
Concen: 22.428 ug/l
RT: 12.51 min Scan# 1127
Delta R.T. -0.01 min
Lab File: VD062531.D
Acq: 24 May 2019 14:54

Tgt Ion:131 Resp: 90560
Ion Ratio Lower Upper
131 100
133 100.4 48.6 145.8
119 60.3 34.7 104.1





#67

Ethyl Benzene

Concen: 22.309 ug/l

RT: 12.52 min Scan# 1128

Delta R.T. -0.01 min

Lab File: VD062531.D

Acq: 24 May 2019 14:54

Instrument :

MSVOA_D

ClientSampleId :

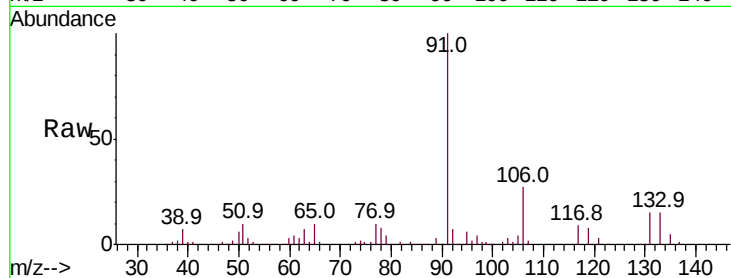
VD0524SBS01

Tot Ion: 91 Resp: 336124

Ion Ratio Lower Upper

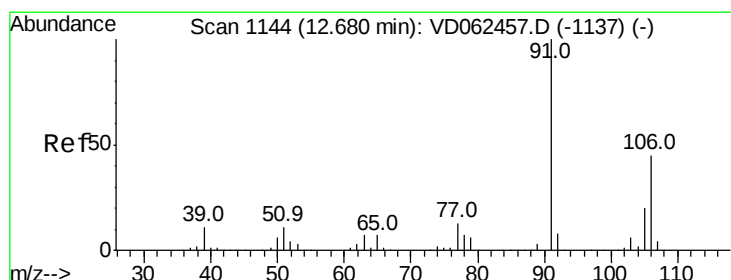
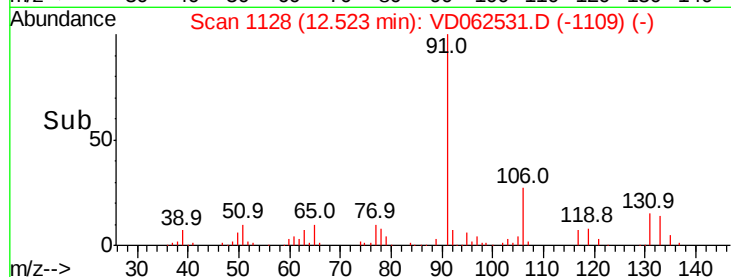
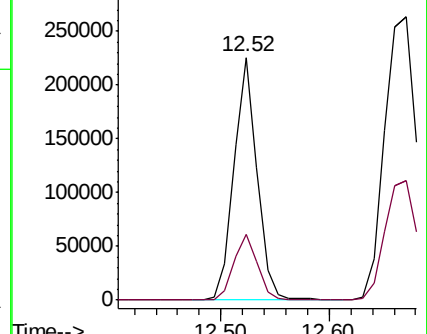
91 100

106 27.3 24.7 37.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.05 (105.75 to 106.75): V



#68

m/p-Xylenes

Concen: 42.186 ug/l

RT: 12.67 min Scan# 1143

Delta R.T. -0.01 min

Lab File: VD062531.D

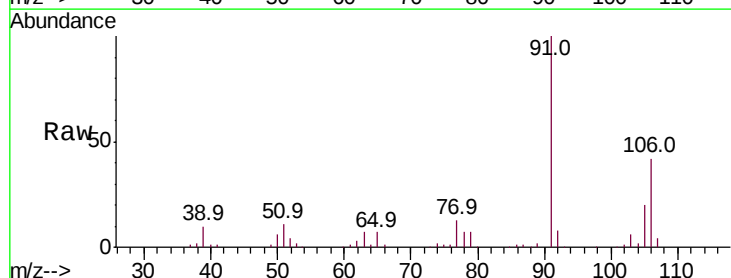
Acq: 24 May 2019 14:54

Tgt Ion:106 Resp: 228159

Ion Ratio Lower Upper

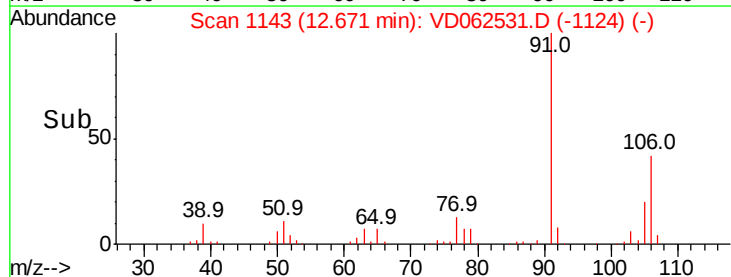
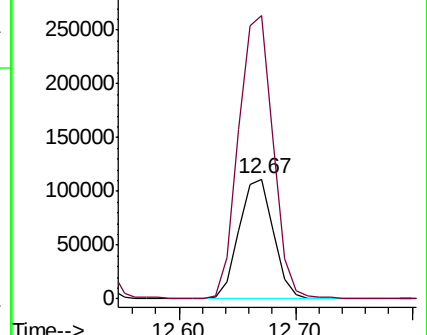
106 100

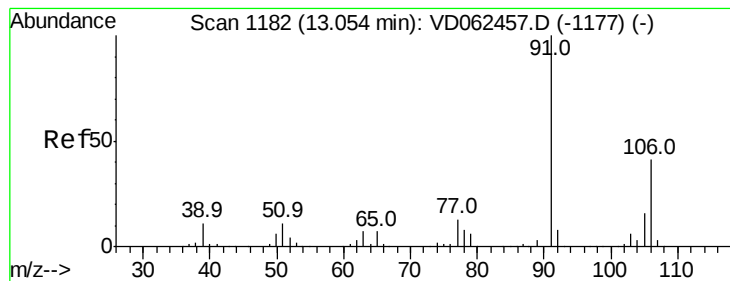
91 236.6 164.0 246.0



Abundance Ion 106.05 (105.75 to 106.75): V

Ion 91.00 (90.70 to 91.70): V





#69

o-Xylene

Concen: 20.687 ug/l

RT: 13.04 min Scan# 1181

Delta R.T. -0.01 min

Lab File: VD062531.D

Acq: 24 May 2019 14:54

Instrument :

MSVOA_D

ClientSampleID :

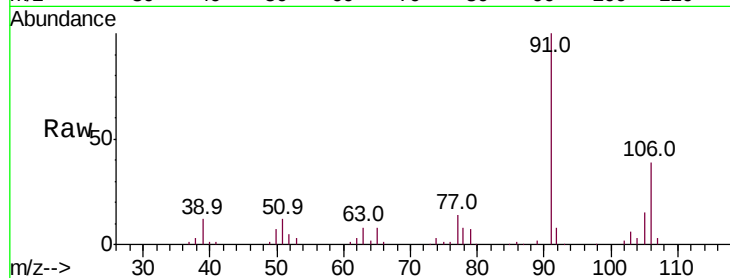
VD0524SBS01

Tot Ion:106 Resp: 105564

Ion Ratio Lower Upper

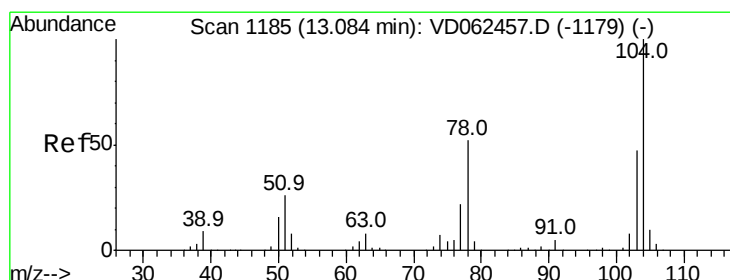
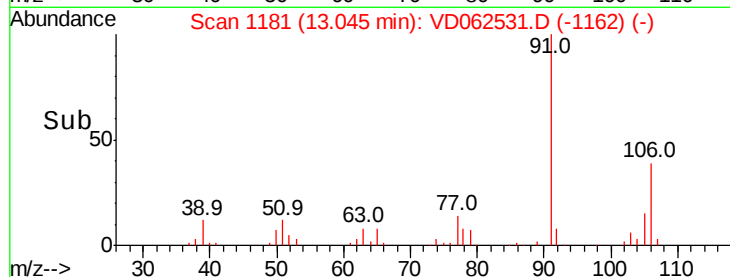
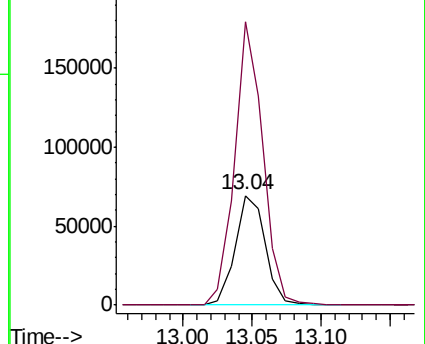
106 100

91 258.4 106.7 319.9



Abundance Ion 106.05 (105.75 to 106.75): V

Ion 91.00 (90.70 to 91.70): V



#70

Styrene

Concen: 21.166 ug/l

RT: 13.07 min Scan# 1184

Delta R.T. -0.01 min

Lab File: VD062531.D

Acq: 24 May 2019 14:54

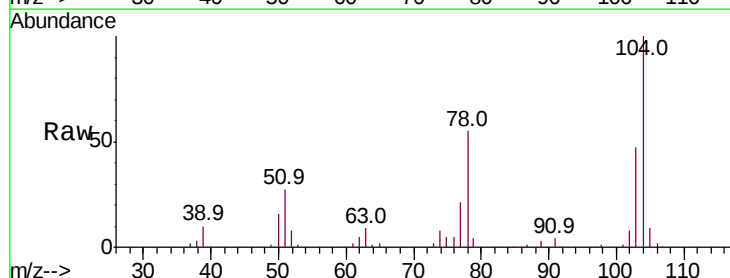
Tgt Ion:104 Resp: 183743

Ion Ratio Lower Upper

104 100

78 54.8 35.4 53.2#

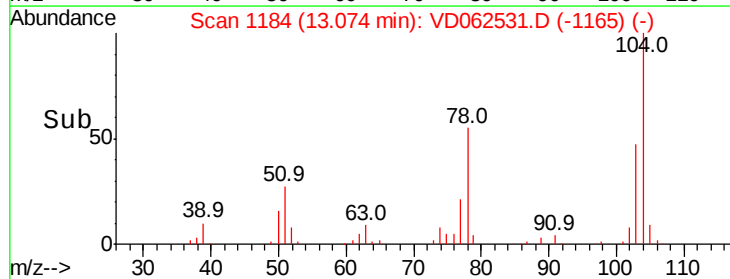
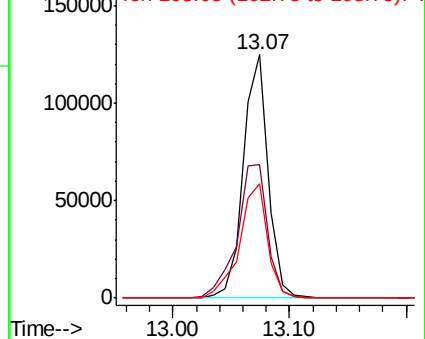
103 46.8 37.5 56.3

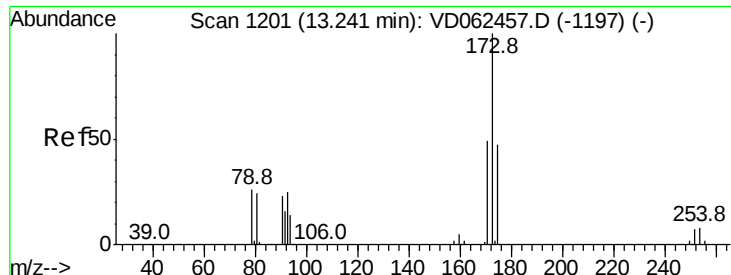


Abundance Ion 104.05 (103.75 to 104.75): V

Ion 77.95 (77.65 to 78.65): V

Ion 103.05 (102.75 to 103.75): V





#71

Bromoform

Concen: 24.791 ug/l

RT: 13.23 min Scan# 1200

Delta R.T. -0.01 min

Lab File: VD062531.D

Acq: 24 May 2019 14:54

Instrument :

MSVOA_D

ClientSampleId :

VD0524SBS01

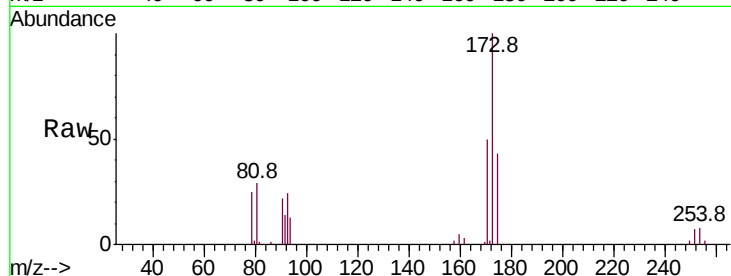
Tot Ion:173 Resp: 66480

Ion Ratio Lower Upper

173 100

175 43.3 24.4 73.4

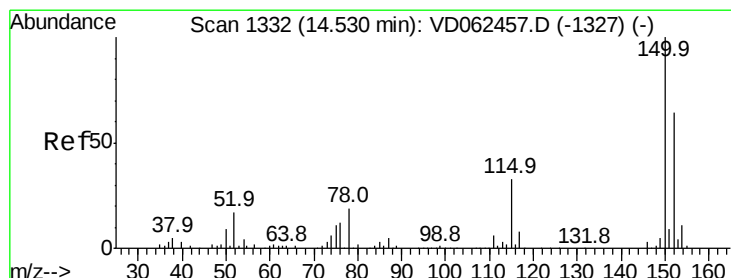
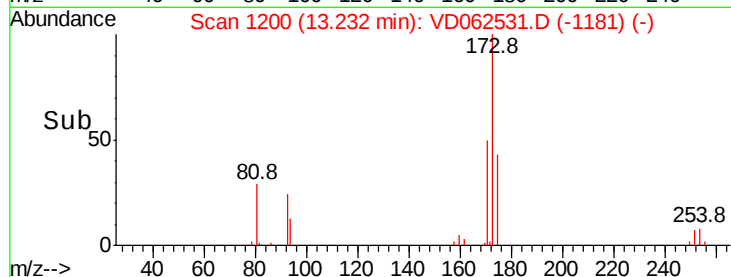
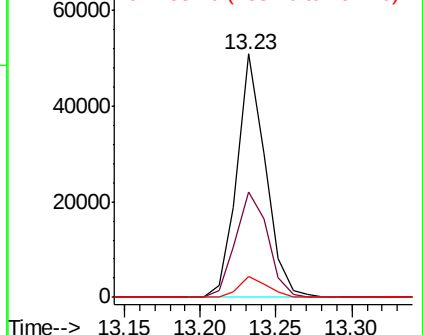
254 8.4 5.4 8.2#



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: VD062531.D

Acq: 24 May 2019 14:54

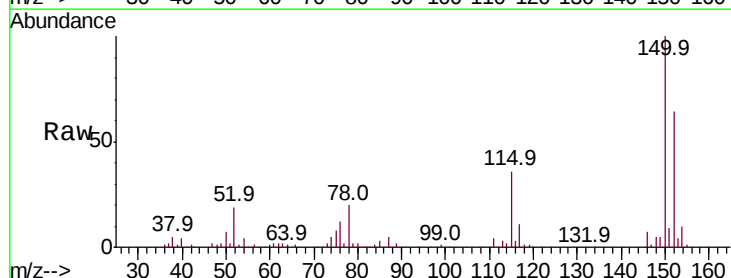
Tgt Ion:152 Resp: 263437

Ion Ratio Lower Upper

152 100

115 55.3 30.9 92.7

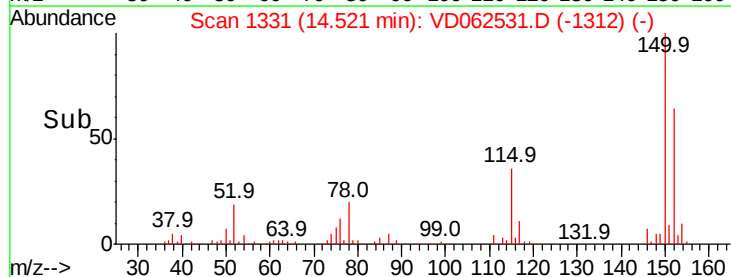
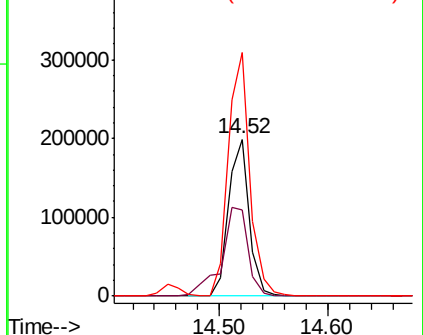
150 155.3 0.0 314.8

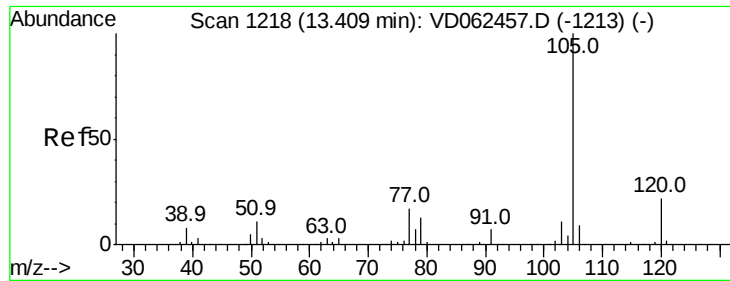


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 20.601 ug/l

RT: 13.40 min Scan# 1217

Delta R.T. -0.01 min

Lab File: VD062531.D

Acq: 24 May 2019 14:54

Instrument :

MSVOA_D

ClientSampleId :

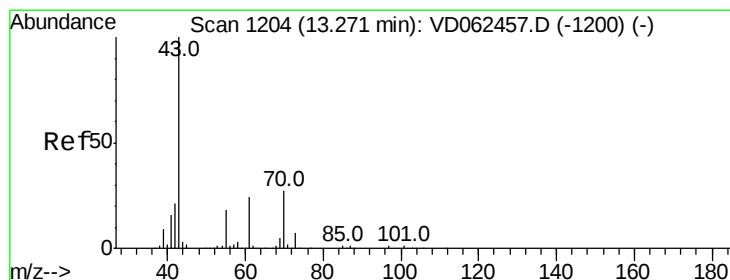
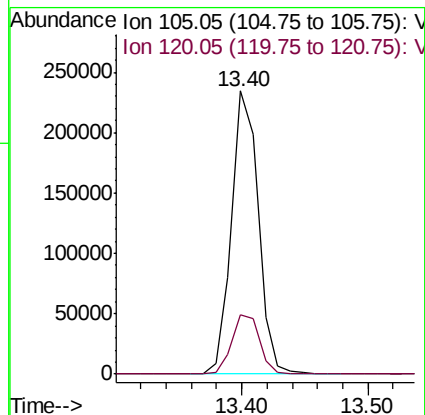
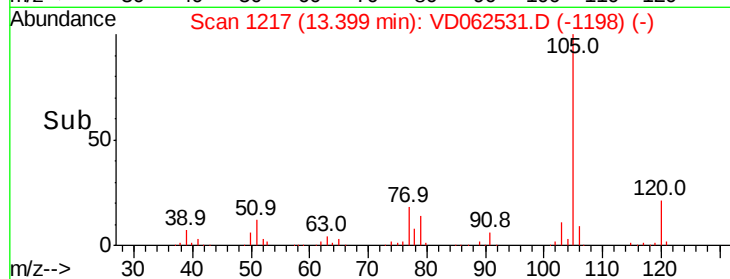
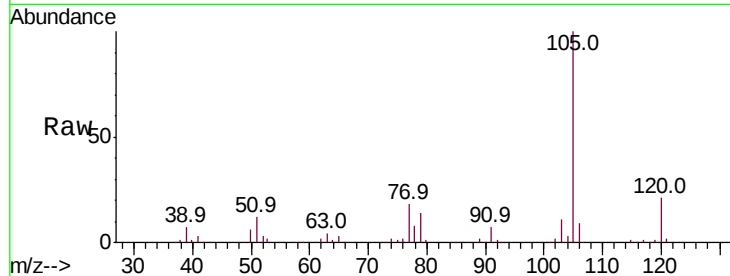
VD0524SBS01

Tot Ion:105 Resp: 342084

Ion Ratio Lower Upper

105 100

120 21.1 12.0 36.1



#74

N-ethyl acetate

Concen: 20.229 ug/l

RT: 13.26 min Scan# 1203

Delta R.T. -0.01 min

Lab File: VD062531.D

Acq: 24 May 2019 14:54

Tgt Ion: 43 Resp: 82963

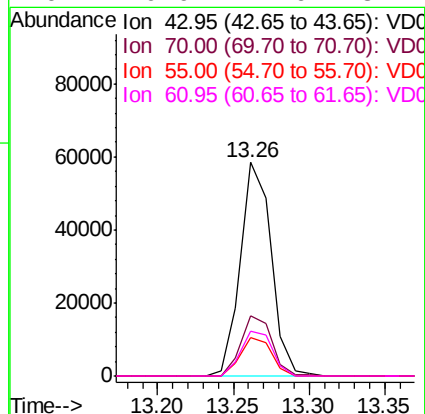
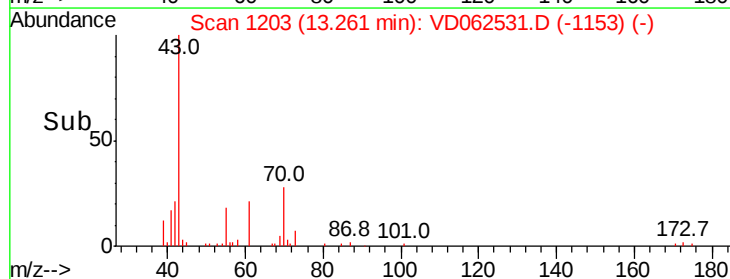
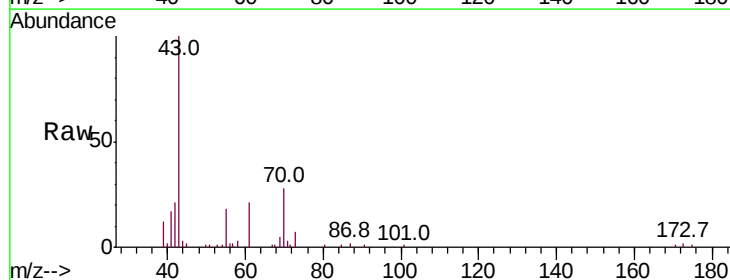
Ion Ratio Lower Upper

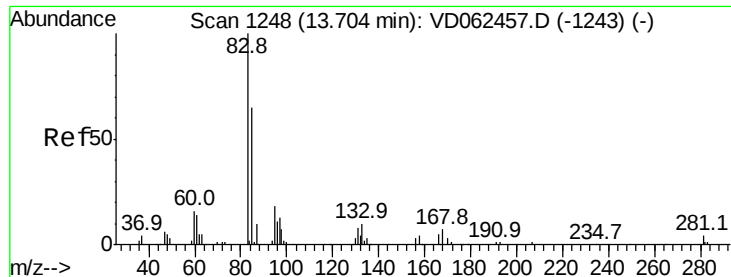
43 100

70 28.0 24.2 36.4

55 17.8 16.0 24.0

61 20.9 21.6 32.4#





#75

1,1,2,2-Tetrachloroethane

Concen: 17.038 ug/l

RT: 13.69 min Scan# 1247

Delta R.T. -0.01 min

Lab File: VD062531.D

Acq: 24 May 2019 14:54

Instrument :

MSVOA_D

ClientSampleId :

VD0524SBS01

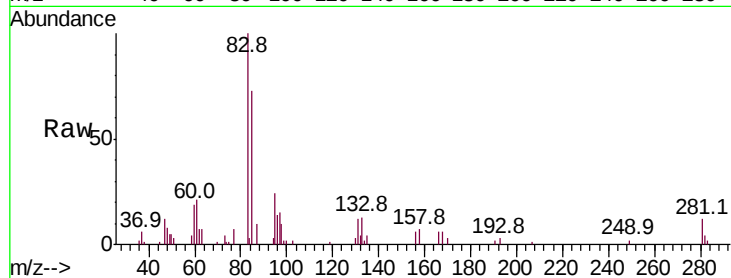
Tot Ion: 83 Resp: 51041

Ion Ratio Lower Upper

83 100

131 12.1 5.0 14.9

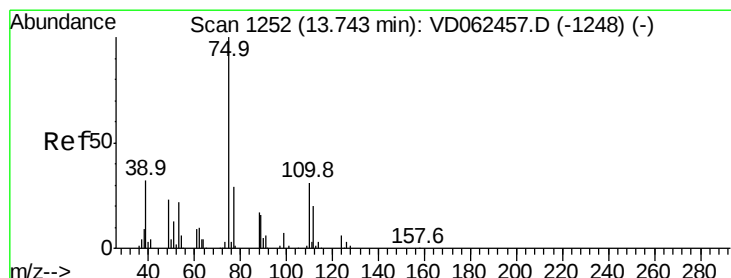
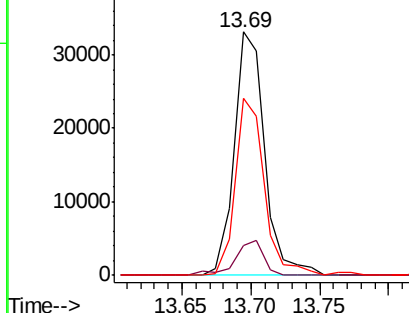
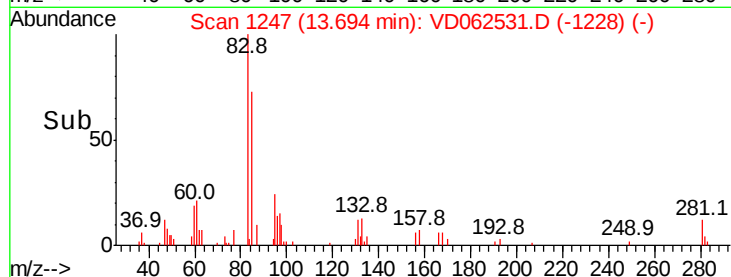
85 72.6 32.6 97.7



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: 20.223 ug/l

RT: 13.73 min Scan# 1251

Delta R.T. -0.01 min

Lab File: VD062531.D

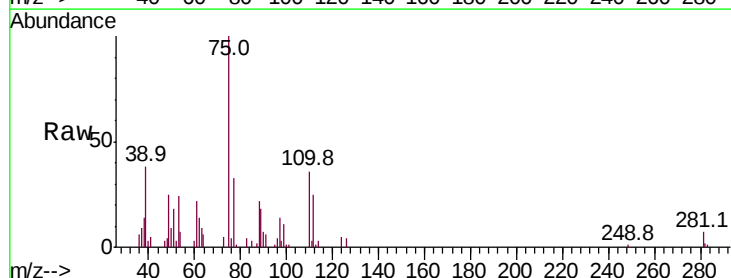
Acq: 24 May 2019 14:54

Tgt Ion: 75 Resp: 62751

Ion Ratio Lower Upper

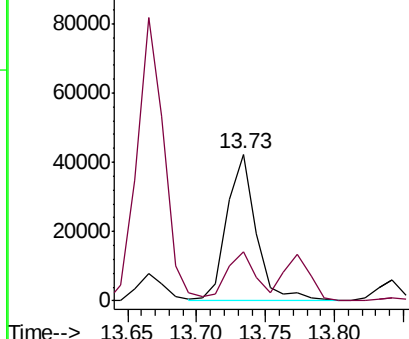
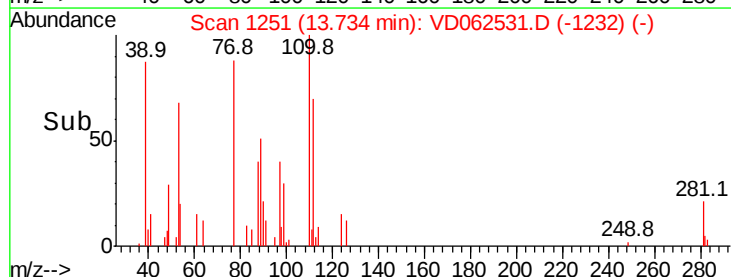
75 100

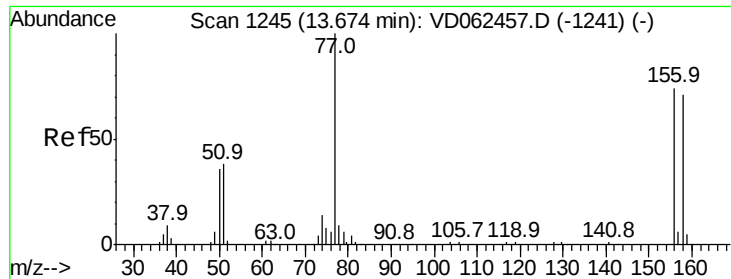
77 33.3 16.4 49.4



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 19.961 ug/l

RT: 13.66 min Scan# 1244

Delta R.T. -0.01 min

Lab File: VD062531.D

Acq: 24 May 2019 14:54

Instrument :

MSVOA_D

ClientSampleId :

VD0524SBS01

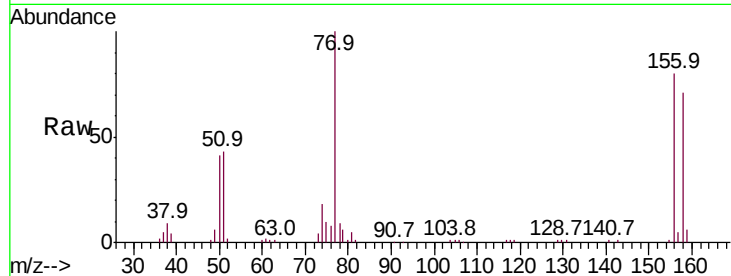
Tot Ion:156 Resp: 94028

Ion Ratio Lower Upper

156 100

77 125.1 53.1 159.4

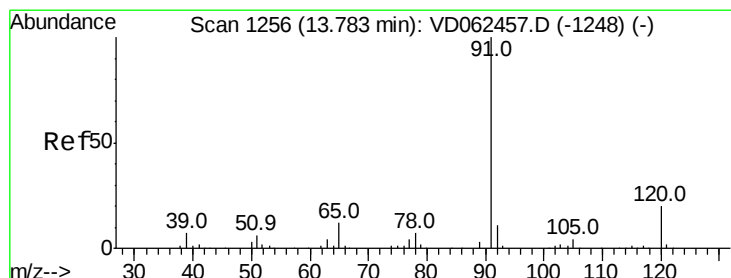
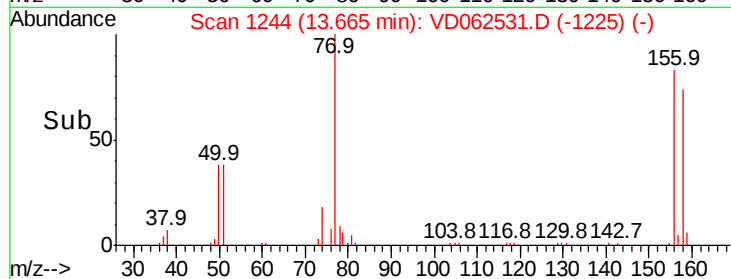
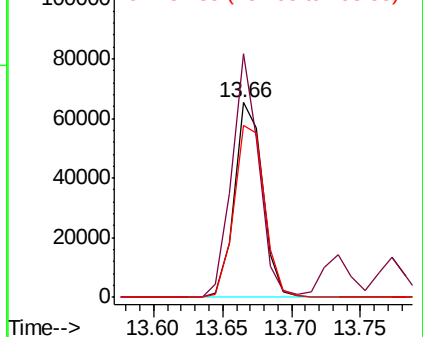
158 88.4 49.4 148.0



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 20.719 ug/l

RT: 13.77 min Scan# 1255

Delta R.T. -0.01 min

Lab File: VD062531.D

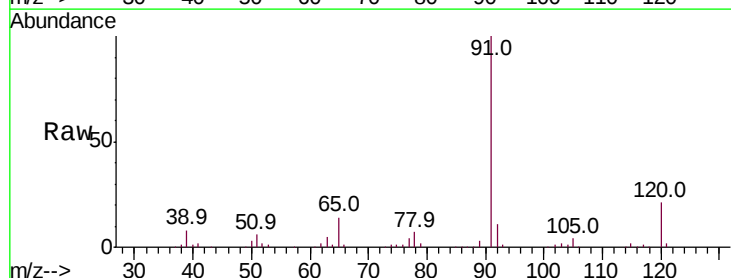
Acq: 24 May 2019 14:54

Tgt Ion: 91 Resp: 398528

Ion Ratio Lower Upper

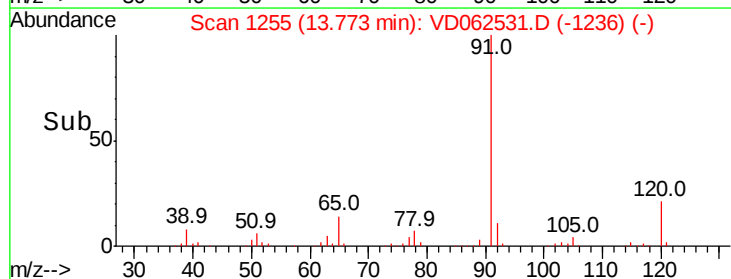
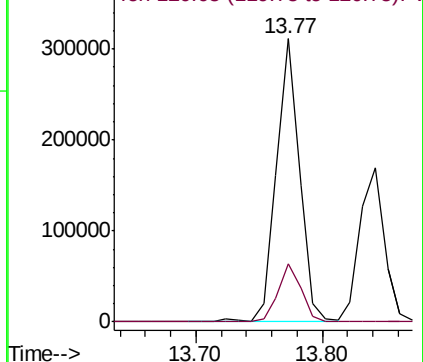
91 100

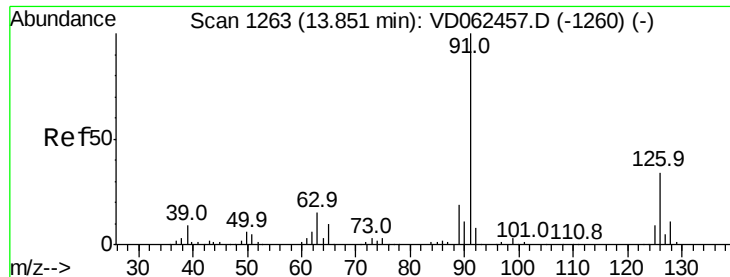
120 20.5 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 19.721 ug/l

RT: 13.84 min Scan# 1262

Delta R.T. -0.01 min

Lab File: VD062531.D

Acq: 24 May 2019 14:54

Instrument :

MSVOA_D

ClientSampleId :

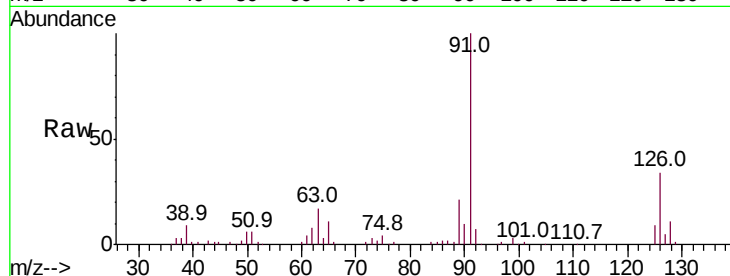
VD0524SBS01

Tot Ion: 91 Resp: 230201

Ion Ratio Lower Upper

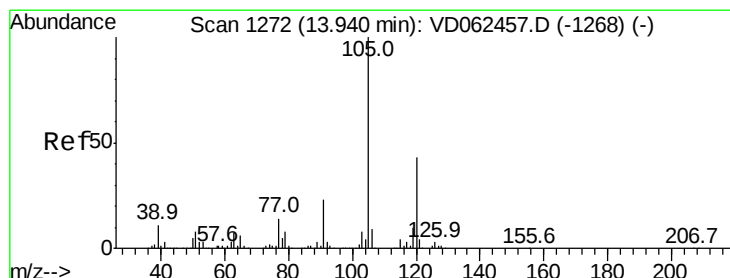
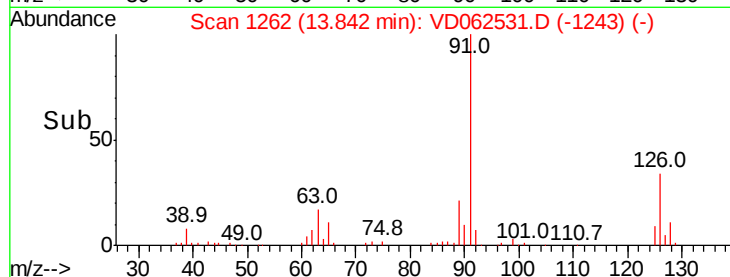
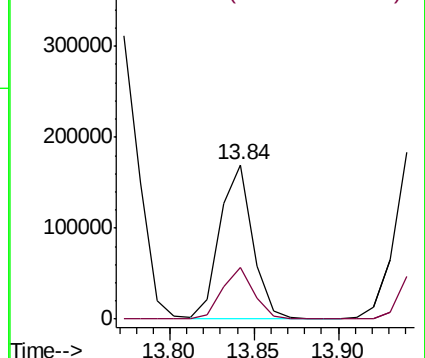
91 100

126 33.7 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: 21.393 ug/l

RT: 13.93 min Scan# 1271

Delta R.T. -0.01 min

Lab File: VD062531.D

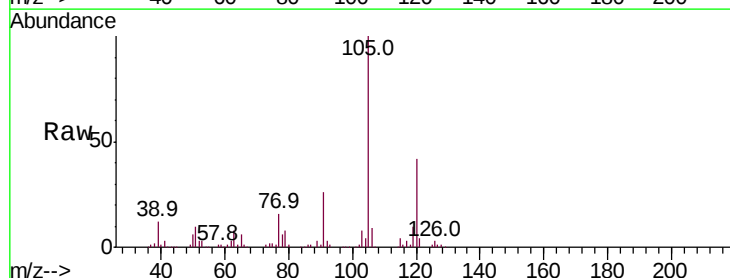
Acq: 24 May 2019 14:54

Tgt Ion:105 Resp: 307588

Ion Ratio Lower Upper

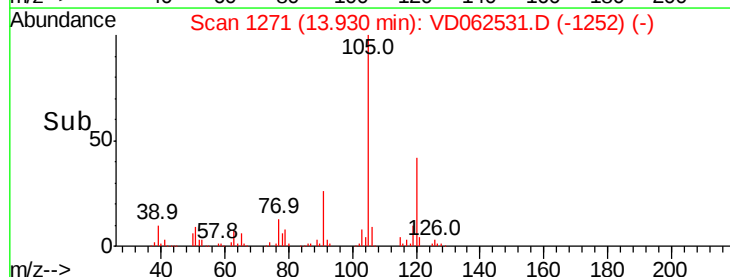
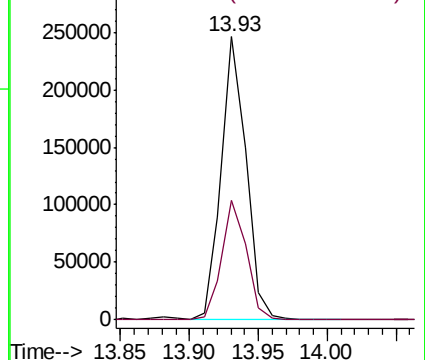
105 100

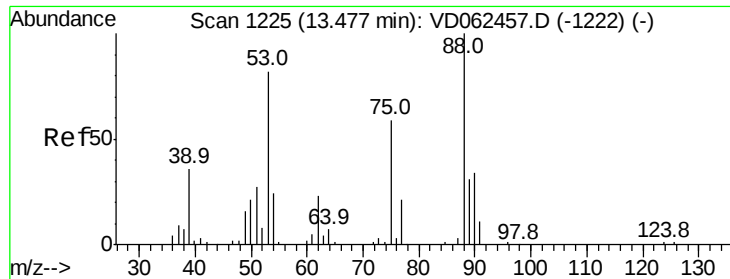
120 42.2 24.0 72.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#81

trans-1,4-Dichloro-2-butene

Concen: 20.251 ug/l

RT: 13.47 min Scan# 1224

Delta R.T. -0.01 min

Lab File: VD062531.D

Acq: 24 May 2019 14:54

Instrument :

MSVOA_D

ClientSampleId :

VD0524SBS01

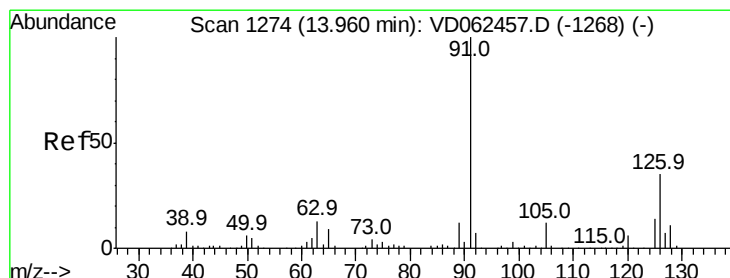
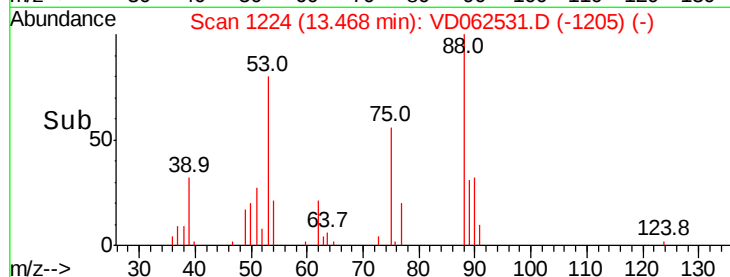
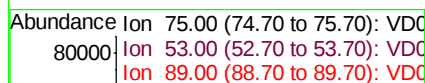
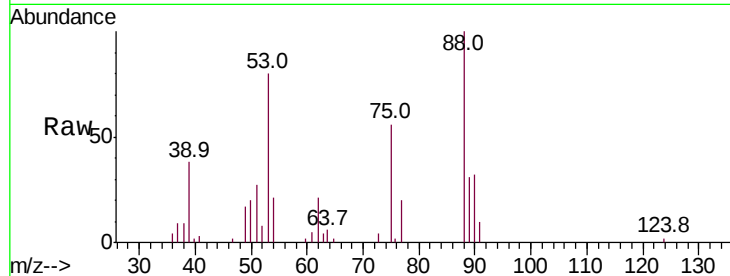
Tot Ion: 75 Resp: 17722

Ion Ratio Lower Upper

75 100

53 143.2 65.8 98.8#

89 55.8 35.0 52.6#



#82

4-Chlorotoluene

Concen: 21.350 ug/l

RT: 13.94 min Scan# 1272

Delta R.T. -0.02 min

Lab File: VD062531.D

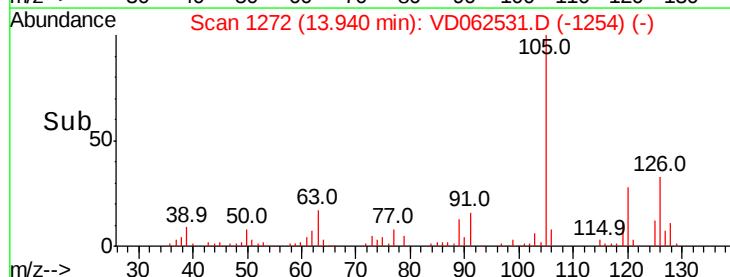
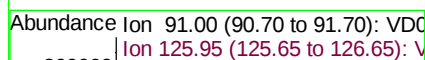
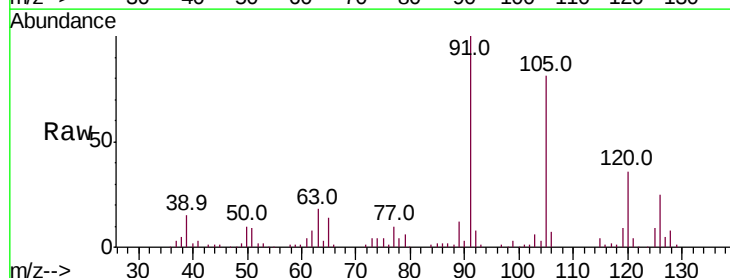
Acq: 24 May 2019 14:54

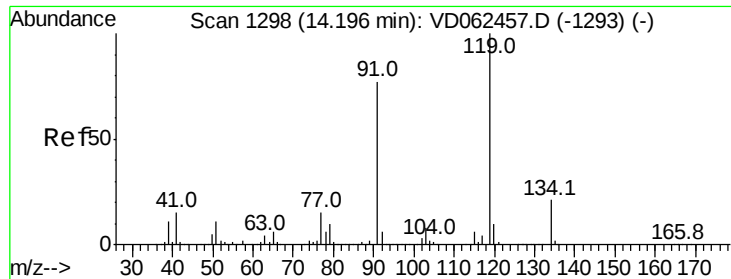
Tgt Ion: 91 Resp: 287000

Ion Ratio Lower Upper

91 100

126 25.5 19.1 57.5

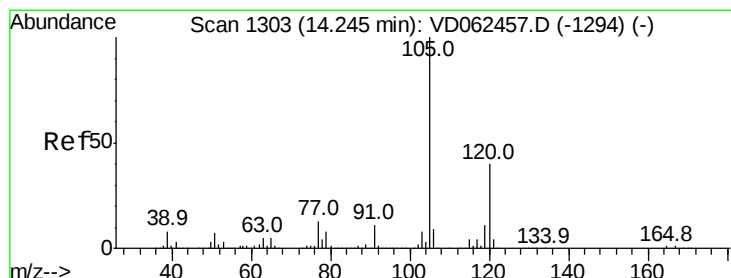
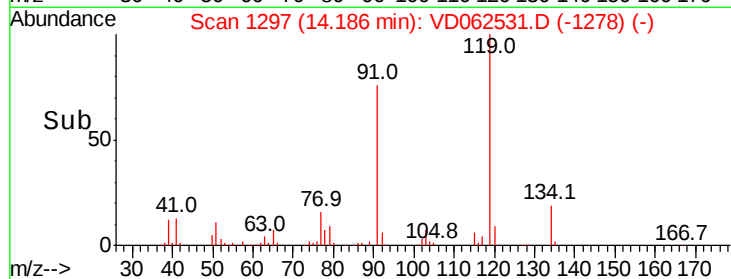
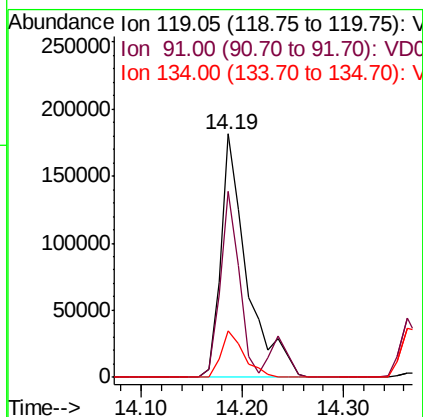
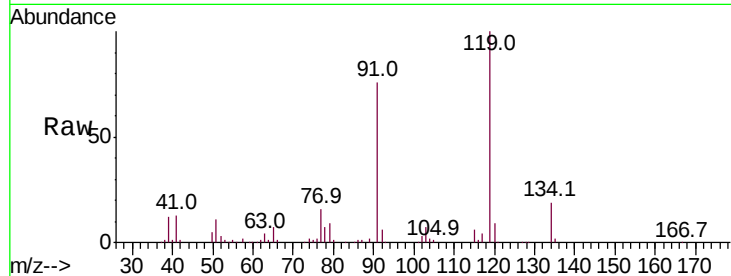




#83
tert-Butylbenzene
Concen: 20.510 ug/l
RT: 14.19 min Scan# 1297
Delta R.T. -0.01 min
Lab File: VD062531.D
Acq: 24 May 2019 14:54

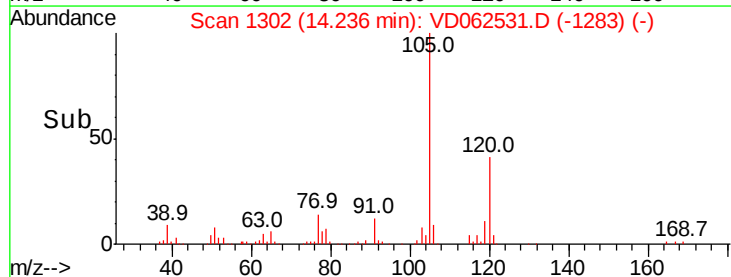
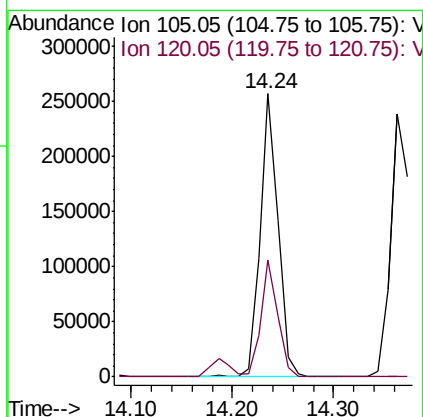
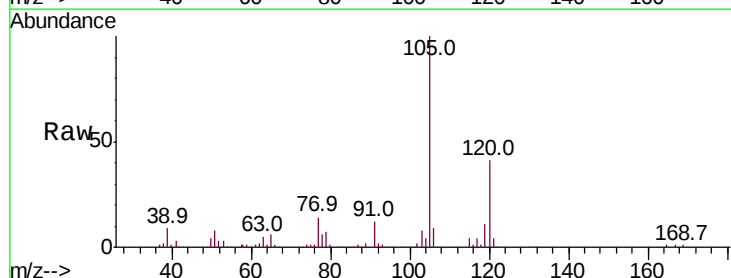
Instrument :
MSVOA_D
ClientSampleId :
VD0524SBS01

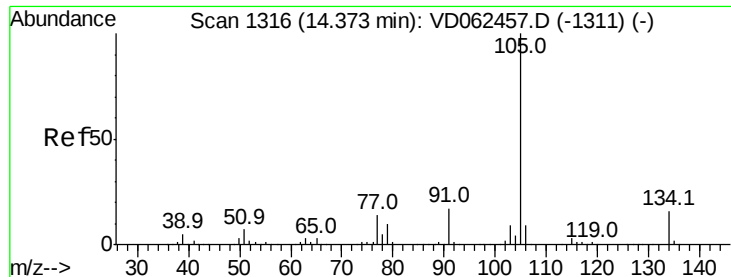
Tot Ion:119 Resp: 327094
Ion Ratio Lower Upper
119 100
91 76.2 34.2 102.6
134 19.1 12.0 36.0



#84
1,2,4-Trimethylbenzene
Concen: 21.631 ug/l
RT: 14.24 min Scan# 1302
Delta R.T. -0.01 min
Lab File: VD062531.D
Acq: 24 May 2019 14:54

Tgt Ion:105 Resp: 318675
Ion Ratio Lower Upper
105 100
120 41.3 23.1 69.2





#85

sec-Butylbenzene

Concen: 19.389 ug/l

RT: 14.36 min Scan# 1315

Delta R.T. -0.01 min

Lab File: VD062531.D

Acq: 24 May 2019 14:54

Instrument :

MSVOA_D

ClientSampleId :

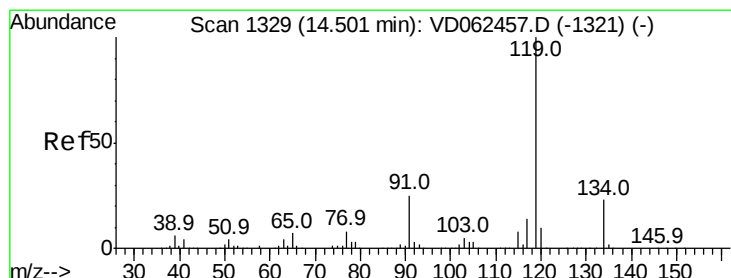
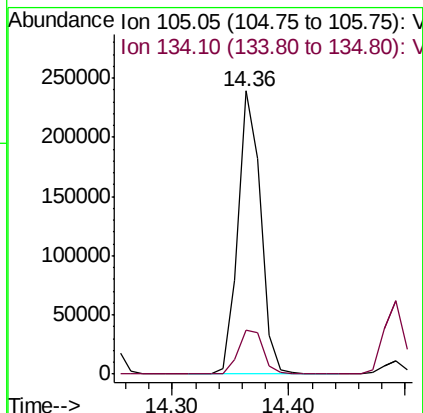
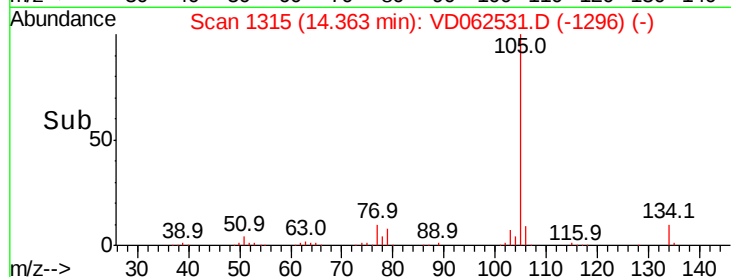
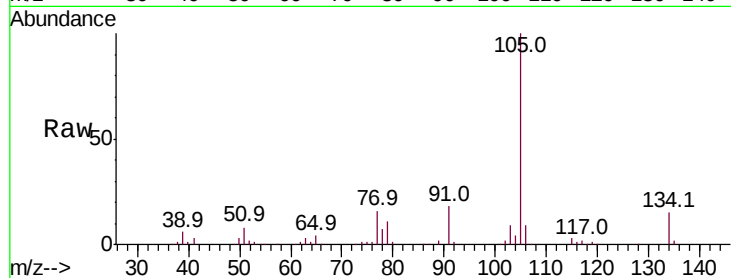
VD0524SBS01

Tot Ion:105 Resp: 322430

Ion Ratio Lower Upper

105 100

134 15.4 8.9 26.7



#86

p-Isopropyltoluene

Concen: 22.197 ug/l

RT: 14.49 min Scan# 1328

Delta R.T. -0.01 min

Lab File: VD062531.D

Acq: 24 May 2019 14:54

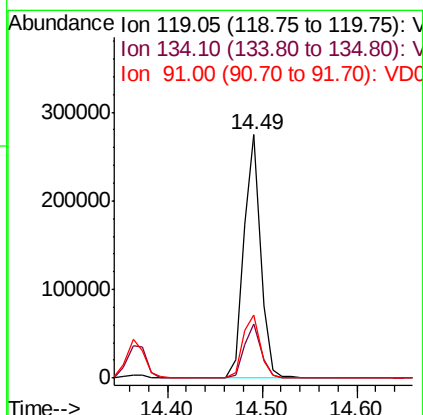
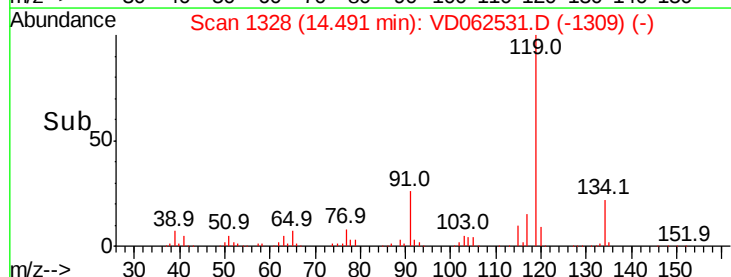
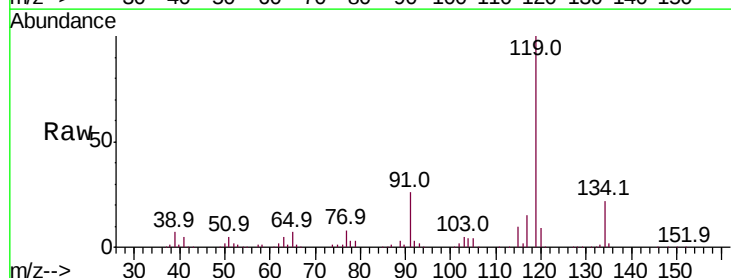
Tgt Ion:119 Resp: 334507

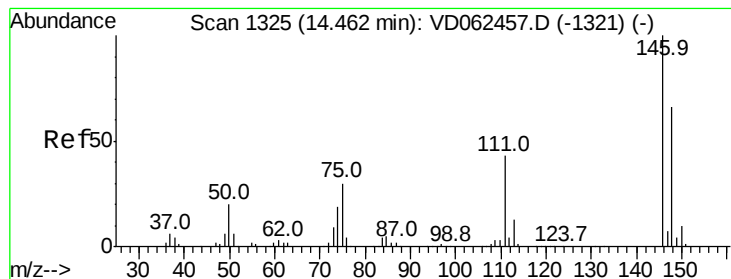
Ion Ratio Lower Upper

119 100

134 22.4 12.8 38.3

91 25.9 10.7 32.1





#87

1,3-Dichlorobenzene

Concen: 20.811 ug/l

RT: 14.45 min Scan# 1324

Delta R.T. -0.01 min

Lab File: VD062531.D

Acq: 24 May 2019 14:54

Instrument :

MSVOA_D

ClientSampleId :

VD0524SBS01

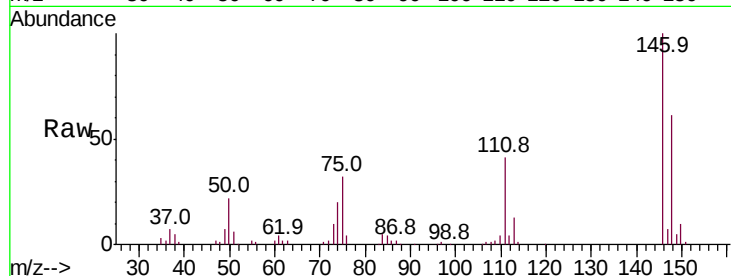
Tot Ion:146 Resp: 173116

Ion Ratio Lower Upper

146 100

111 41.0 20.0 60.0

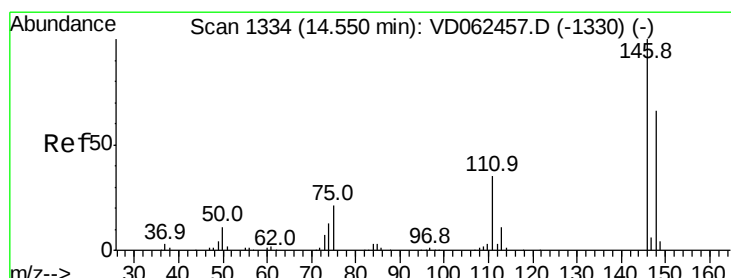
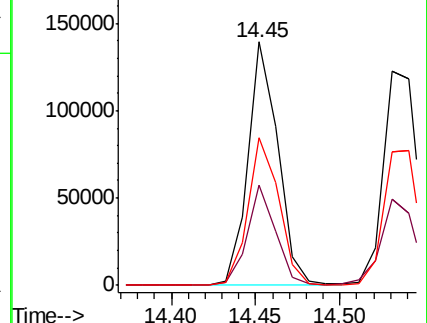
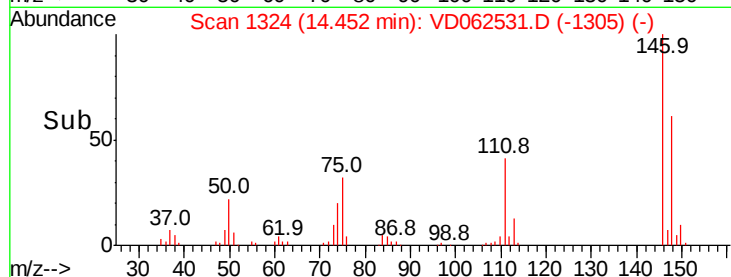
148 60.7 31.8 95.4



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 21.759 ug/l

RT: 14.53 min Scan# 1332

Delta R.T. -0.02 min

Lab File: VD062531.D

Acq: 24 May 2019 14:54

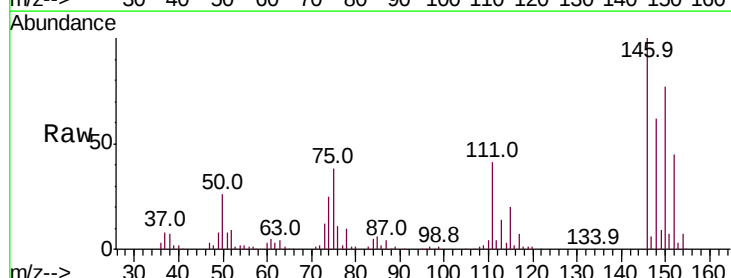
Tgt Ion:146 Resp: 174664

Ion Ratio Lower Upper

146 100

111 40.6 20.2 60.5

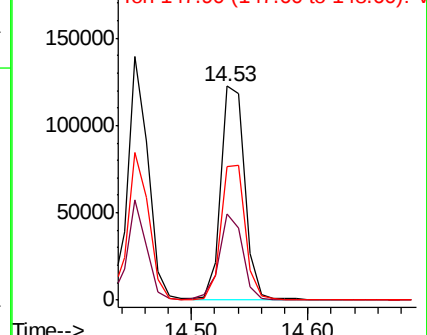
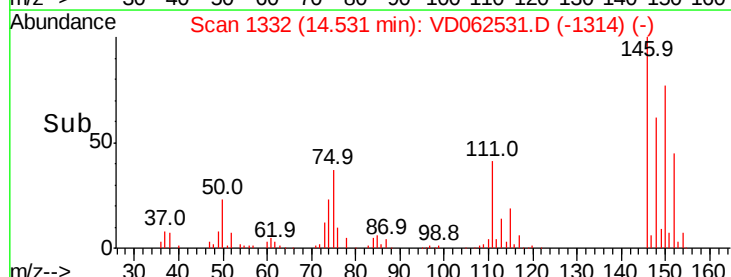
148 62.3 32.0 96.2

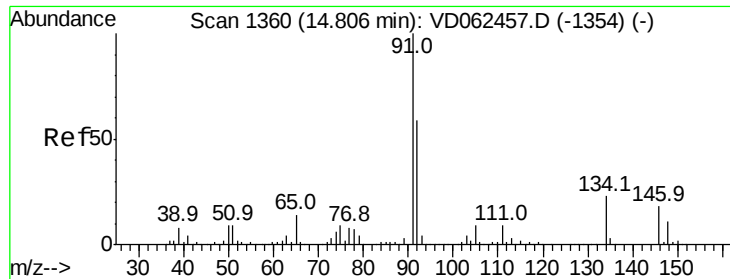


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

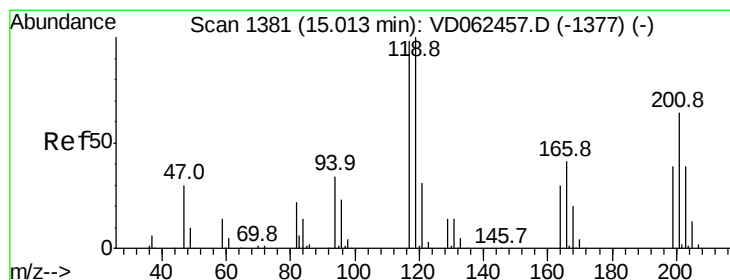
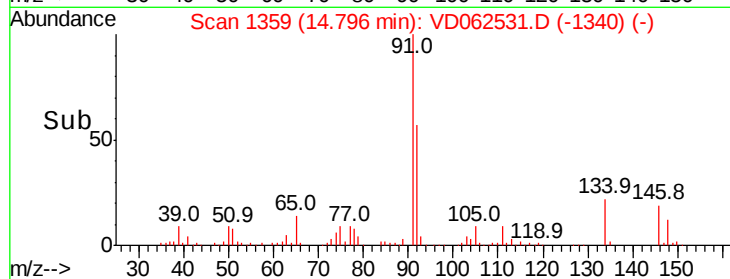
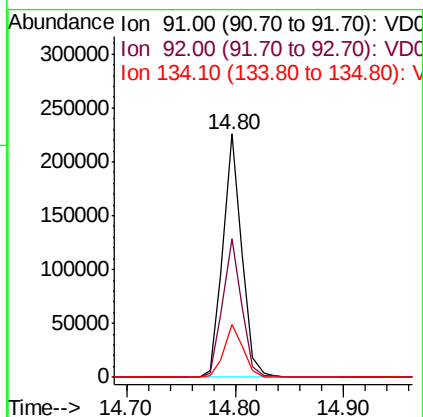
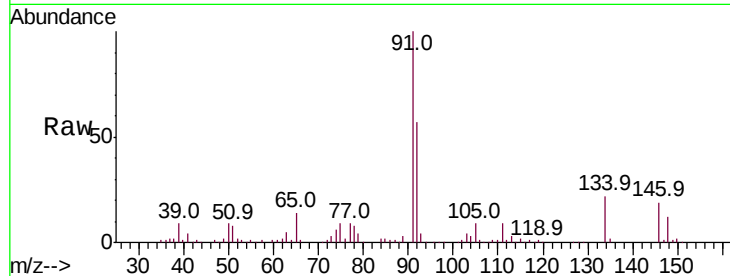




#89
n-Butylbenzene
Concen: 18.952 ug/l
RT: 14.80 min Scan# 1359
Delta R.T. -0.01 min
Lab File: VD062531.D
Acq: 24 May 2019 14:54

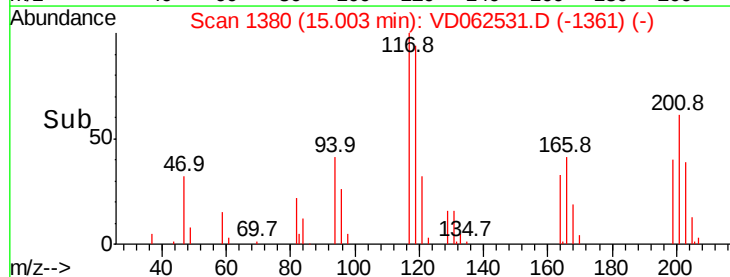
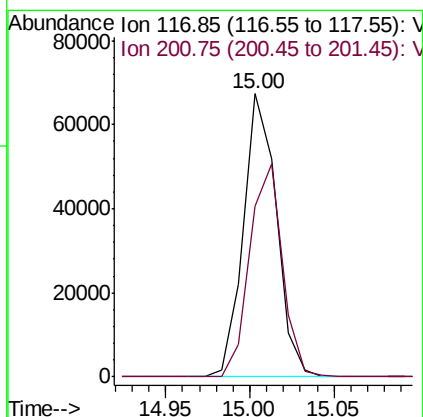
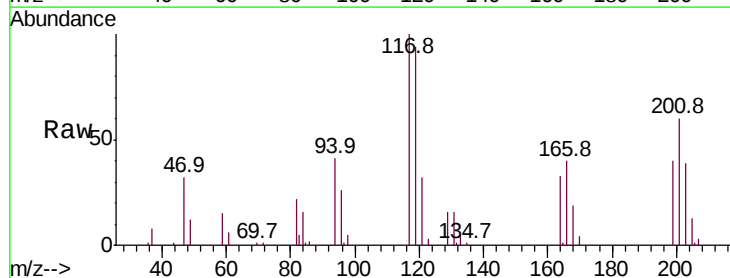
Instrument :
MSVOA_D
ClientSampleId :
VD0524SBS01

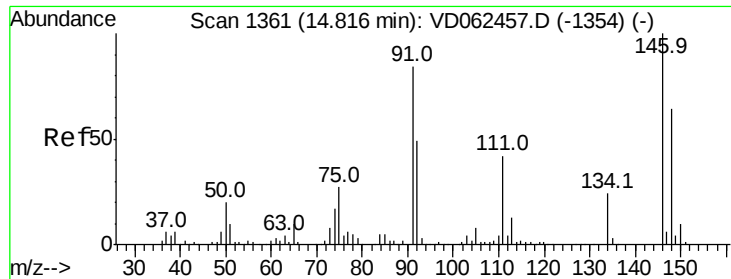
Tot Ion: 91 Resp: 275634
Ion Ratio Lower Upper
91 100
92 56.8 30.3 91.0
134 21.9 14.5 43.6



#90
Hexachloroethane
Concen: 21.960 ug/l
RT: 15.00 min Scan# 1380
Delta R.T. -0.01 min
Lab File: VD062531.D
Acq: 24 May 2019 14:54

Tgt Ion: 117 Resp: 91460
Ion Ratio Lower Upper
117 100
201 60.3 30.2 90.6

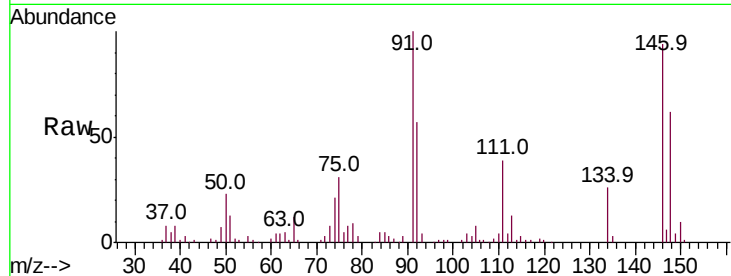




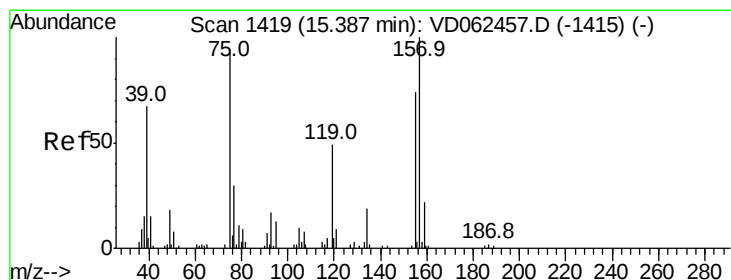
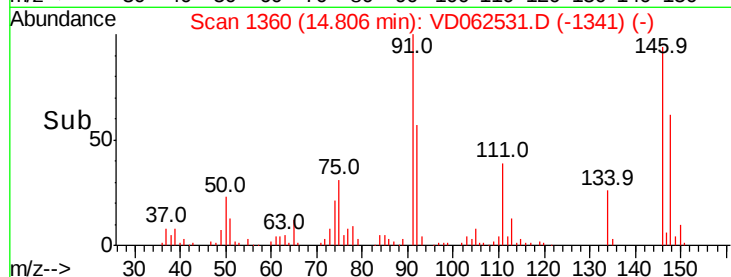
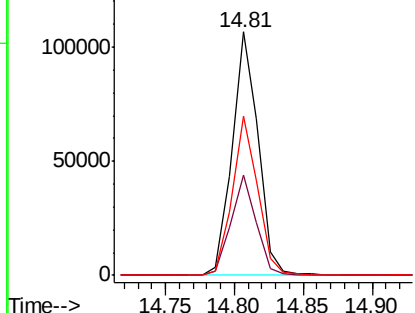
#91
 1,2-Dichlorobenzene
 Concen: 19.717 ug/l
 RT: 14.81 min Scan# 1360
 Delta R.T. -0.01 min
 Lab File: VD062531.D
 Acq: 24 May 2019 14:54

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0524SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.3	20.0	59.9
148	65.2	32.3	96.8

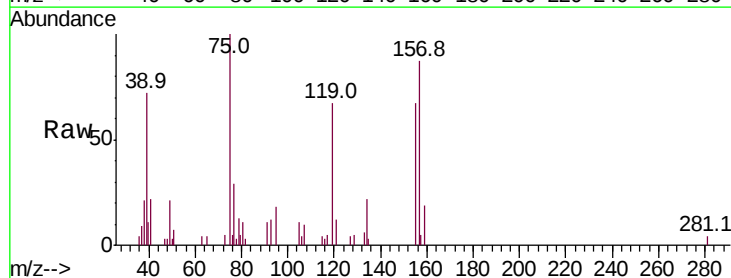


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

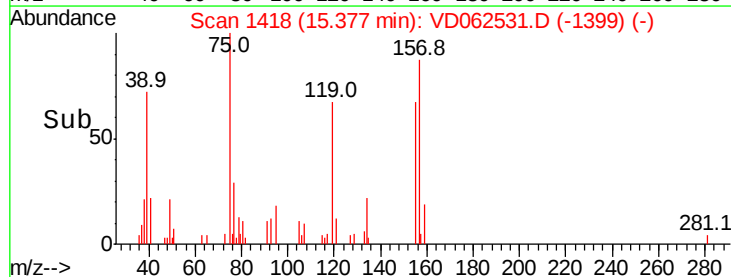
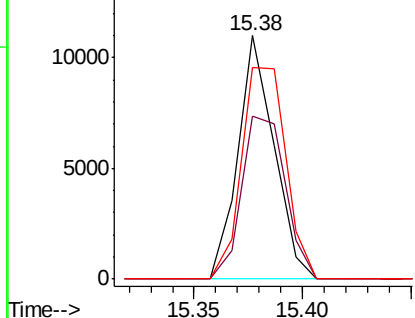


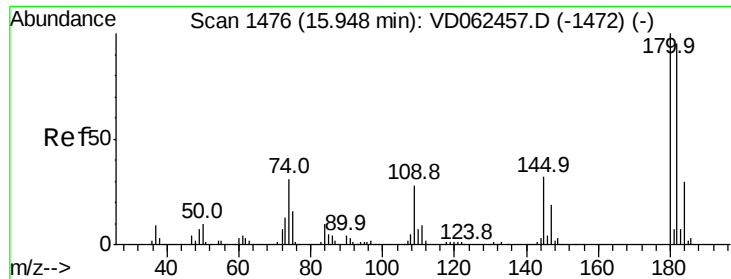
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 22.417 ug/l
 RT: 15.38 min Scan# 1418
 Delta R.T. -0.01 min
 Lab File: VD062531.D
 Acq: 24 May 2019 14:54

Tgt Ion	Ratio	Lower	Upper
75	100		
155	67.1	55.3	165.8
157	87.2	67.8	203.2



Abundance Ion 75.00 (74.70 to 75.70): V
 Ion 154.90 (154.60 to 155.60): V
 Ion 156.85 (156.55 to 157.55): V

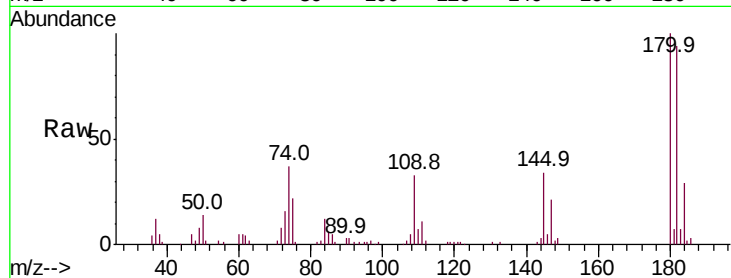




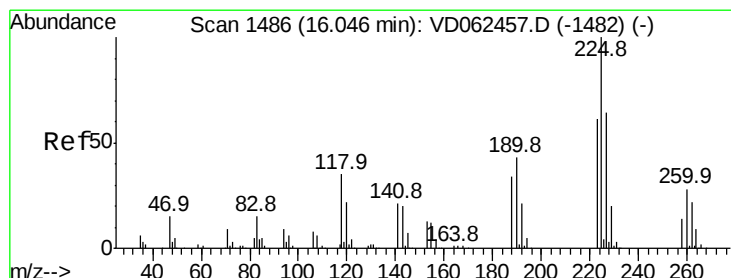
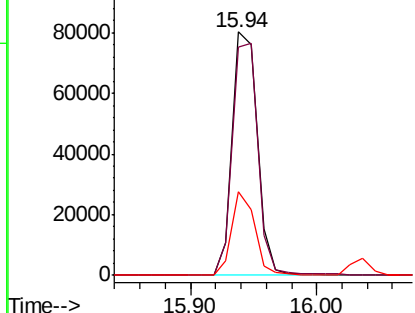
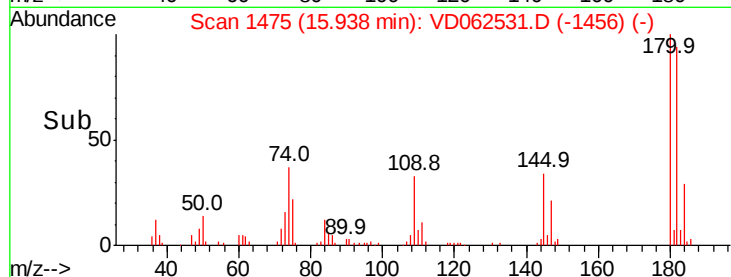
#93
 1,2,4-Trichlorobenzene
 Concen: 19.796 ug/l
 RT: 15.94 min Scan# 1475
 Delta R.T. -0.01 min
 Lab File: VD062531.D
 Acq: 24 May 2019 14:54

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0524SBS01

Tot Ion:180 Resp: 110260
 Ion Ratio Lower Upper
 180 100
 182 93.9 49.3 147.8
 145 34.5 16.2 48.6

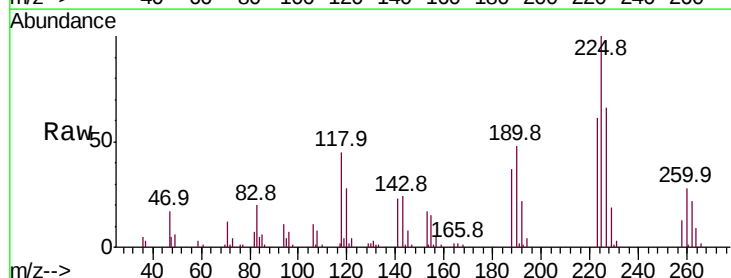


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

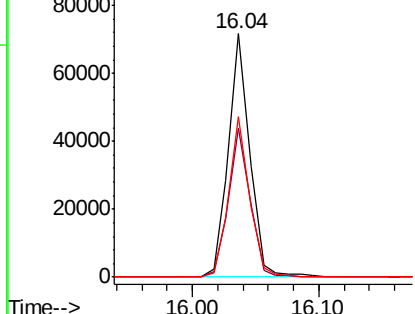
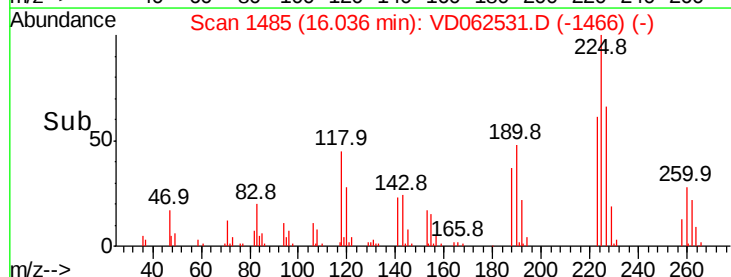


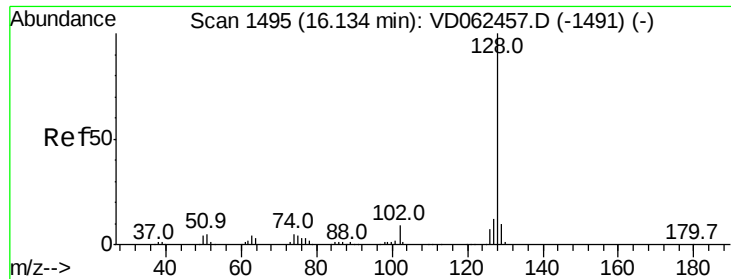
#94
 Hexachlorobutadiene
 Concen: 20.353 ug/l
 RT: 16.04 min Scan# 1485
 Delta R.T. -0.01 min
 Lab File: VD062531.D
 Acq: 24 May 2019 14:54

Tgt Ion:225 Resp: 83700
 Ion Ratio Lower Upper
 225 100
 223 61.2 30.6 92.0
 227 66.0 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: 20.599 ug/l

RT: 16.12 min Scan# 1494

Delta R.T. -0.01 min

Lab File: VD062531.D

Acq: 24 May 2019 14:54

Instrument :

MSVOA_D

ClientSampleId :

VD0524SBS01

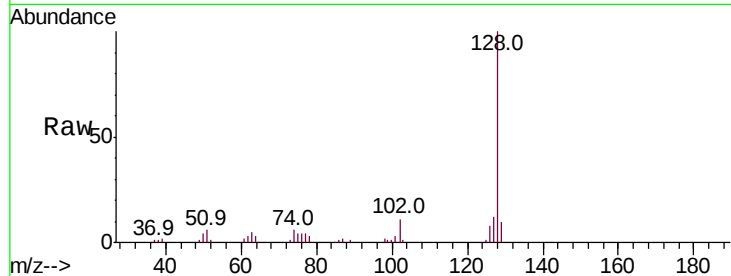
Tot Ion:128 Resp: 156770

Ion Ratio Lower Upper

128 100

127 12.0 9.8 14.8

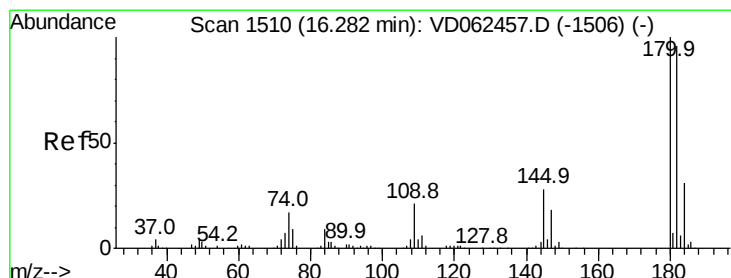
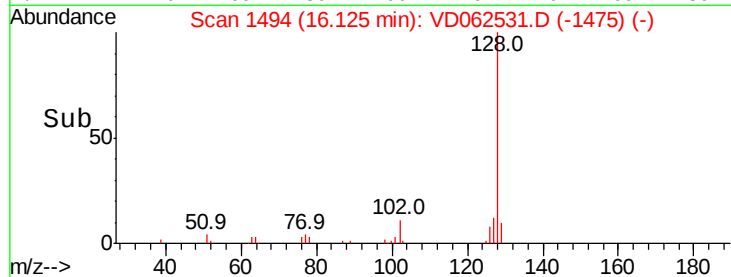
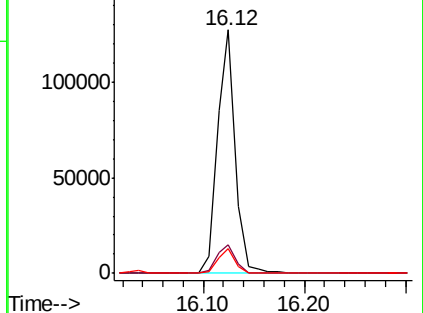
129 10.2 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 19.529 ug/l

RT: 16.27 min Scan# 1509

Delta R.T. -0.01 min

Lab File: VD062531.D

Acq: 24 May 2019 14:54

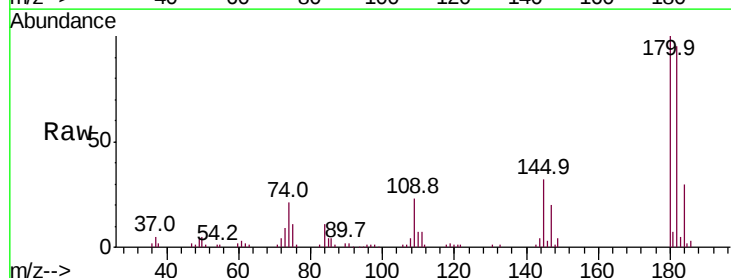
Tgt Ion:180 Resp: 89167

Ion Ratio Lower Upper

180 100

182 95.1 47.0 141.0

145 32.0 17.0 51.0



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

