

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081419\
 Data File : VD063598.D
 Acq On : 15 Aug 2019 4:00
 Operator : JC/SY
 Sample : VD0814SBSD02
 Misc : 5.00µl/5ml/MSVOA D/SOIL
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Aug 15 12:06:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 10 06:42:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	944456	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	8.22	114	1405126	50.00	ug/l	-0.02
63) Chlorobenzene-d5	12.36	117	1207259	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	638387	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	581176	57.57	ug/l	-0.02
Spiked Amount 50.000			Recovery =	115.14%		
35) Dibromofluoromethane	6.92	113	613458	51.84	ug/l	-0.02
Spiked Amount 50.000			Recovery =	103.68%		
50) Toluene-d8	10.41	98	1222102	46.97	ug/l	0.00
Spiked Amount 50.000			Recovery =	93.94%		
62) 4-Bromofluorobenzene	13.55	95	571884	48.50	ug/l	0.00
Spiked Amount 50.000			Recovery =	97.00%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.57	85	218009	19.080	ug/l	99
3) Chloromethane	1.75	50	186838	20.929	ug/l	99
4) Vinyl Chloride	1.85	62	175988	19.858	ug/l	99
5) Bromomethane	2.14	94	76283	18.242	ug/l #	92
6) Chloroethane	2.25	64	85051	20.986	ug/l	99
7) Trichlorofluoromethane	2.53	101	336633	19.365	ug/l	99
8) Diethyl Ether	2.87	74	58797	23.956	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.14	101	201477	19.628	ug/l	92
10) Methyl Iodide	3.30	142	295794	20.367	ug/l	99
11) Tert butyl alcohol	4.08	59	58013	132.004	ug/l	100
12) 1,1-Dichloroethene	3.12	96	144830	18.978	ug/l	99
13) Acrolein	3.03	56	33591	77.652	ug/l #	67
14) Allyl chloride	3.61	41	243520	21.226	ug/l	95
15) Acrylonitrile	4.19	53	152346	130.873	ug/l	94
16) Acetone	3.23	43	215363	104.942	ug/l #	92
17) Carbon Disulfide	3.36	76	486354	20.193	ug/l	99
18) Methyl Acetate	3.64	43	107432	27.638	ug/l	97
19) Methyl tert-butyl Ether	4.23	73	380476	24.929	ug/l	98
20) Methylene Chloride	3.82	84	207134	23.342	ug/l #	87
21) trans-1,2-Dichloroethene	4.21	96	179917	22.403	ug/l	93
22) Diisopropyl ether	5.13	45	544490	23.000	ug/l	94
23) Vinyl Acetate	5.06	43	1555999	113.058	ug/l	100
24) 1,1-Dichloroethane	4.98	63	333140	22.689	ug/l #	96
25) 2-Butanone	6.07	43	229810	113.383	ug/l	98
26) 2,2-Dichloropropane	6.02	77	290835	19.886	ug/l	96
27) cis-1,2-Dichloroethene	6.03	96	197623	22.492	ug/l	99
28) Bromochloromethane	6.44	49	131114	22.033	ug/l	89
29) Tetrahydrofuran	6.47	42	116718	123.582	ug/l	96
30) Chloroform	6.66	83	404073	22.140	ug/l	94
31) Cyclohexane	6.95	56	181451	19.906	ug/l	97
32) 1,1,1-Trichloroethane	6.87	97	364693	20.889	ug/l	95
36) 1,1-Dichloropropene	7.14	75	238717	19.218	ug/l	99
37) Ethyl Acetate	6.18	43	120455	23.142	ug/l #	94
38) Carbon Tetrachloride	7.11	117	360580	19.261	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.87	83	200122	18.946	ug/l	96
40) Benzene	7.45	78	590034	21.585	ug/l	99
41) Methacrylonitrile	6.46	41	153746	23.459	ug/l #	97
42) 1,2-Dichloroethane	7.58	62	312467	22.733	ug/l	98
43) Isopropyl Acetate	9.24	43	149560	21.454	ug/l #	99
44) Trichloroethene	8.53	130	201975	19.331	ug/l	99
45) 1,2-Dichloropropane	8.94	63	141057	22.159	ug/l	95
46) Dibromomethane	9.05	93	123480	22.714	ug/l	94
47) Bromodichloromethane	9.37	83	317482	22.767	ug/l	96
48) Methyl methacrylate	9.12	41	116730	24.691	ug/l	95
49) 1,4-Dioxane	9.08	88	16840	413.755	ug/l #	73
51) 4-Methyl-2-Pentanone	10.29	43	572734	120.065	ug/l	95
52) Toluene	10.50	92	377058	21.416	ug/l	98
53) t-1,3-Dichloropropene	10.91	75	245463	21.569	ug/l	99
54) cis-1,3-Dichloropropene	10.04	75	281792	21.960	ug/l	92
55) 1,1,2-Trichloroethane	11.19	97	131321	22.080	ug/l	91
56) Ethyl methacrylate	11.04	69	142736	22.111	ug/l	97
57) 1,3-Dichloropropane	11.41	76	203608	22.648	ug/l	94
58) 2-Chloroethyl Vinyl ether	9.85	63	370713	108.777	ug/l	99
59) 2-Hexanone	11.54	43	398816	114.902	ug/l	99
60) Dibromochloromethane	11.68	129	241328	22.299	ug/l	100
61) 1,2-Dibromoethane	11.80	107	157624	21.892	ug/l	98
64) Tetrachloroethene	11.26	164	199251	21.379	ug/l	96
65) Chlorobenzene	12.39	112	457931	20.238	ug/l	99
66) 1,1,1,2-Tetrachloroethane	12.51	131	207059	20.793	ug/l	97
67) Ethyl Benzene	12.52	91	784370	19.937	ug/l	97
68) m/p-Xylenes	12.67	106	562481	40.694	ug/l	95
69) o-Xylene	13.05	106	265742	19.975	ug/l	98
70) Styrene	13.07	104	480185	20.292	ug/l	99
71) Bromoform	13.23	173	146273	21.422	ug/l #	97
73) Isopropylbenzene	13.41	105	764639	18.831	ug/l	98
74) N-amyl acetate	13.26	43	218160	21.403	ug/l	95
75) 1,1,2,2-Tetrachloroethane	13.70	83	154705	22.954	ug/l	98
76) 1,2,3-Trichloropropane	13.73	75	155857	21.273	ug/l	95
77) Bromobenzene	13.67	156	238859	21.524	ug/l	83
78) n-propylbenzene	13.77	91	928236	19.538	ug/l	95
79) 2-Chlorotoluene	13.84	91	583367	21.296	ug/l	97
80) 1,3,5-Trimethylbenzene	13.93	105	673144	18.974	ug/l	96
81) trans-1,4-Dichloro-2-buten	13.47	75	34296	17.416	ug/l #	94
82) 4-Chlorotoluene	13.95	91	658696	19.997	ug/l	99
83) tert-Butylbenzene	14.18	119	753681	20.174	ug/l	95
84) 1,2,4-Trimethylbenzene	14.23	105	710878	21.656	ug/l	94
85) sec-Butylbenzene	14.36	105	752155	18.958	ug/l	94
86) p-Isopropyltoluene	14.49	119	769150	20.275	ug/l	99
87) 1,3-Dichlorobenzene	14.45	146	427166	21.280	ug/l	95
88) 1,4-Dichlorobenzene	14.54	146	405385	21.049	ug/l	99
89) n-Butylbenzene	14.79	91	683988	19.755	ug/l	94
90) Hexachloroethane	15.01	117	198081	20.774	ug/l	80
91) 1,2-Dichlorobenzene	14.80	146	395881	23.245	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	15.37	75	29164	22.981	ug/l	52

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Instrument :
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
Quant Title : SW846 8260
QLast Update : Sat Aug 10 06:42:47 2019
Response via : Initial Calibration

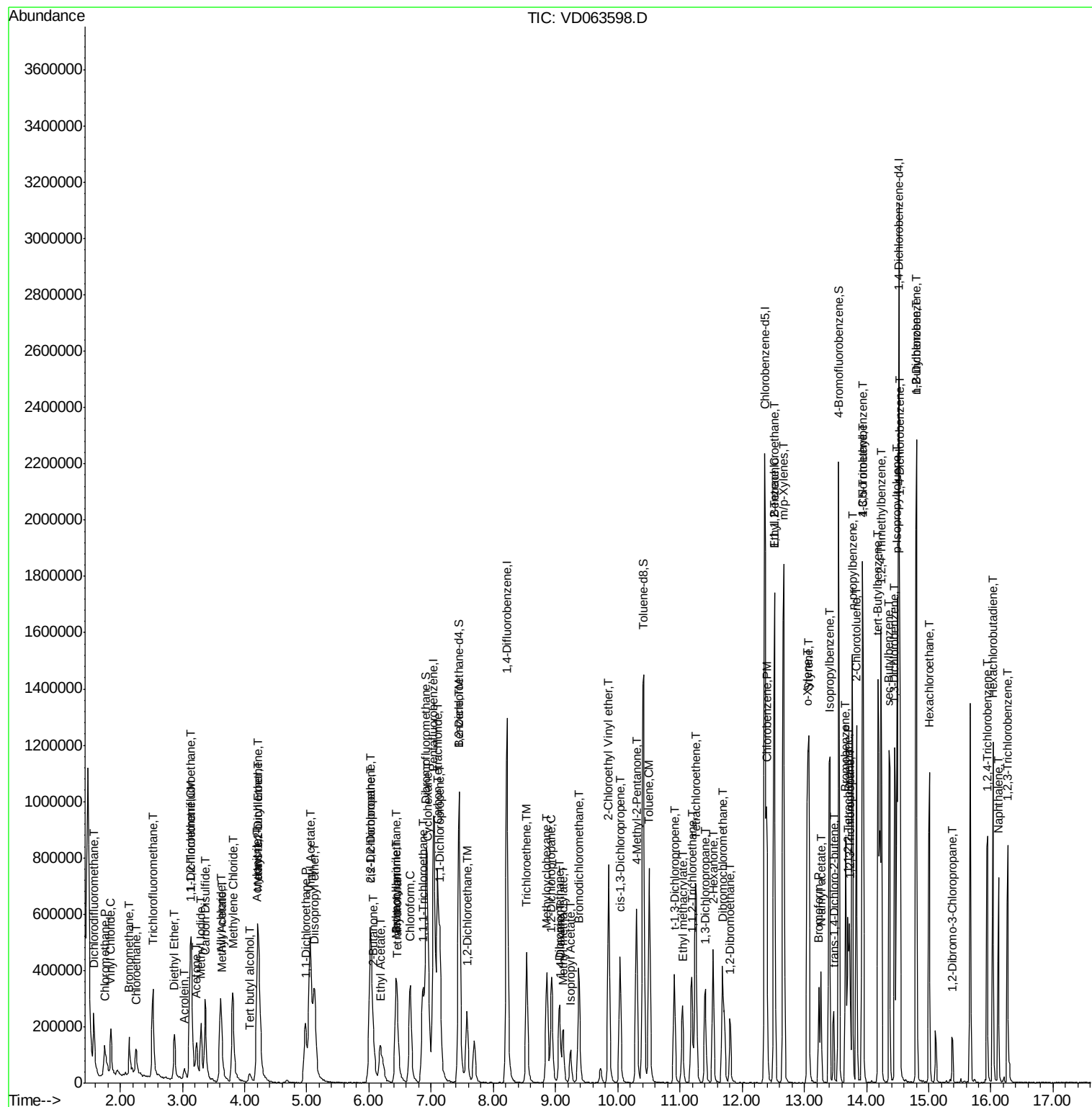
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.95	180	245514	19.592	ug/l	96
94) Hexachlorobutadiene	16.03	225	185698	19.443	ug/l	98
95) Naphthalene	16.12	128	429994	22.641	ug/l	97
96) 1,2,3-Trichlorobenzene	16.27	180	215283	21.270	ug/l	97

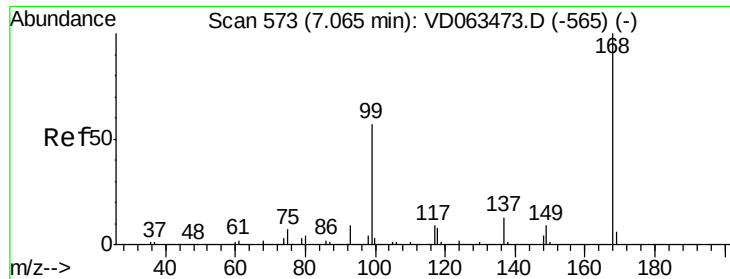
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.02 min

Lab File: VD063598.D

Acq: 15 Aug 2019 4:00

Instrument :

MSVOA_D

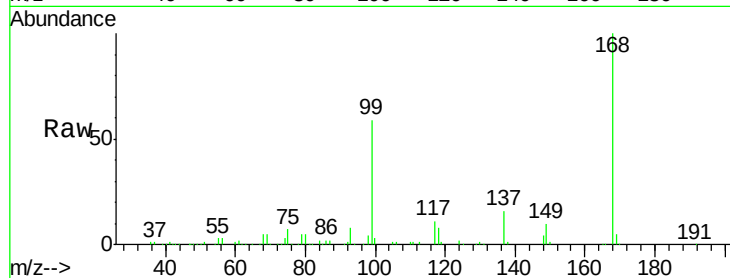
ClientSampleId :

Tot Ion:168 Resp: 944456

Ion Ratio Lower Upper

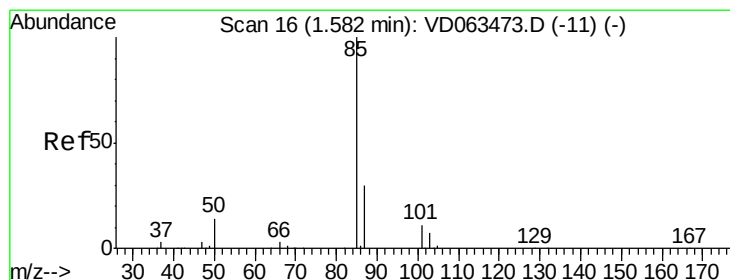
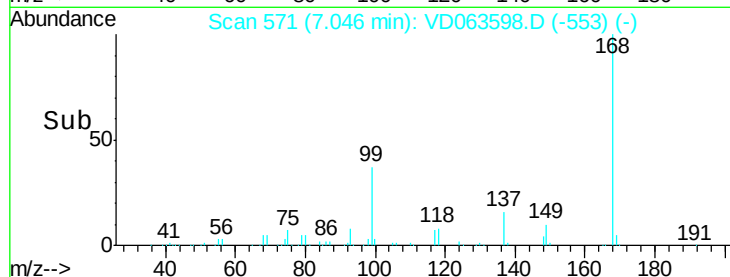
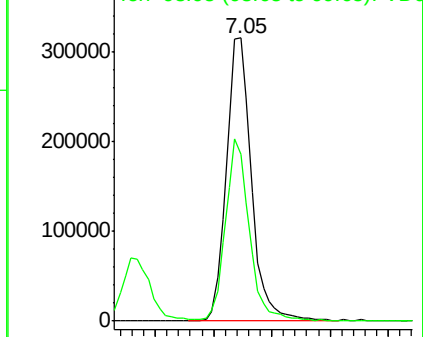
168 100

99 59.0 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 19.080 ug/l

RT: 1.57 min Scan# 15

Delta R.T. -0.01 min

Lab File: VD063598.D

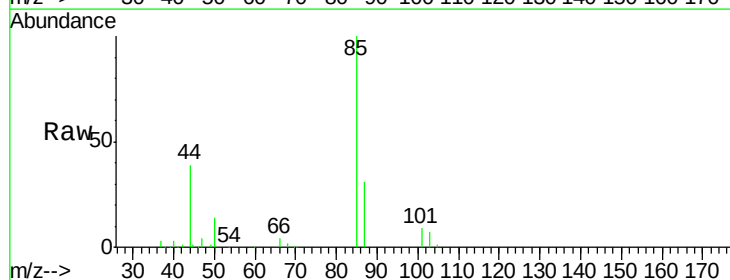
Acq: 15 Aug 2019 4:00

Tgt Ion: 85 Resp: 218009

Ion Ratio Lower Upper

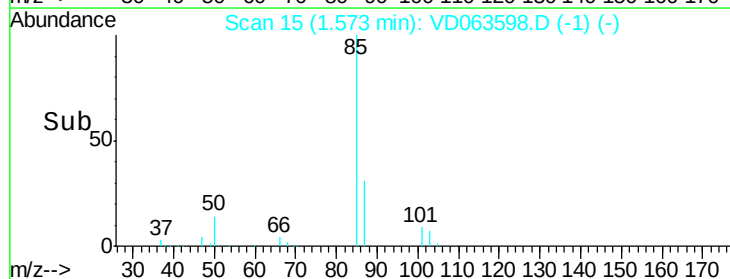
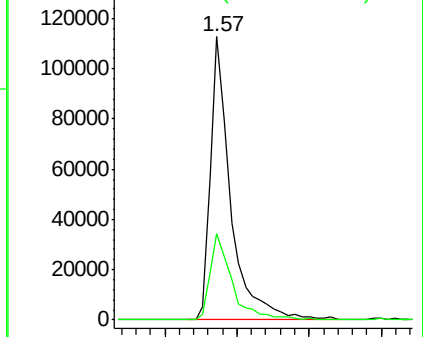
85 100

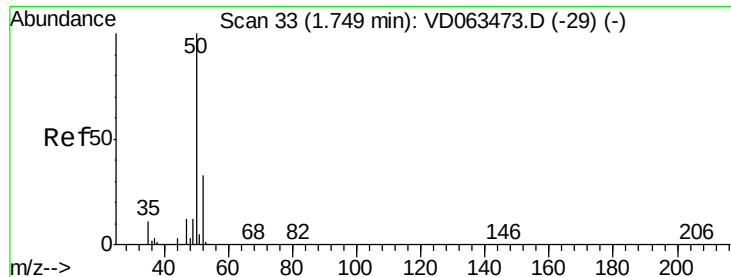
87 30.7 15.0 45.0



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 20.929 ug/l

RT: 1.75 min Scan# 33

Delta R.T. 0.00 min

Lab File: VD063598.D

Acq: 15 Aug 2019 4:00

Instrument :

MSVOA_D

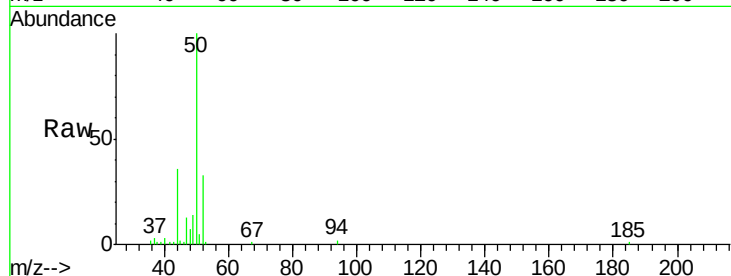
ClientSampleId :

Tot Ion: 50 Resp: 186838

Ion Ratio Lower Upper

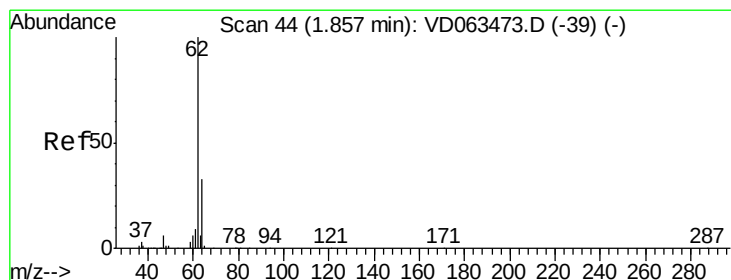
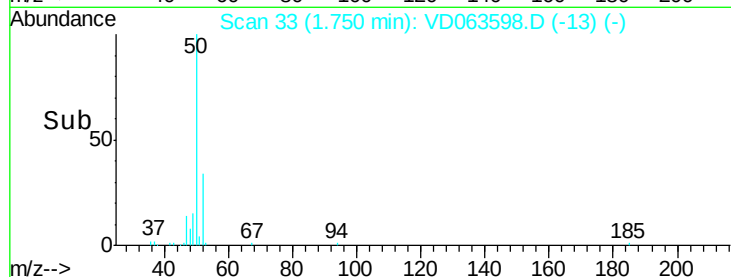
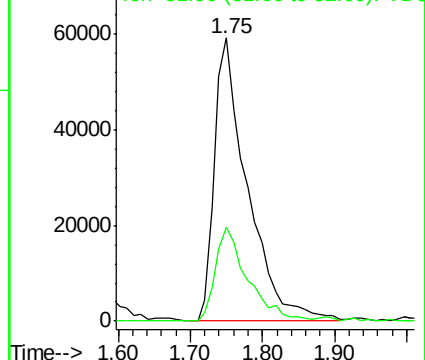
50 100

52 33.0 26.6 40.0



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 19.858 ug/l

RT: 1.85 min Scan# 43

Delta R.T. -0.01 min

Lab File: VD063598.D

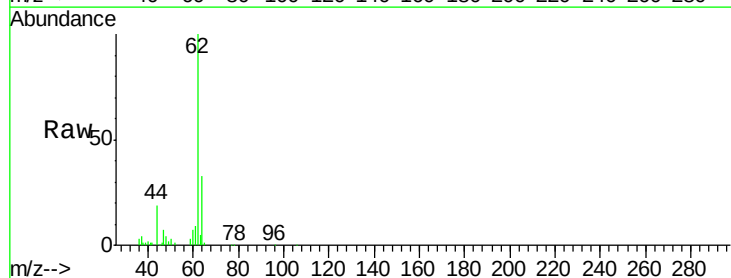
Acq: 15 Aug 2019 4:00

Tgt Ion: 62 Resp: 175988

Ion Ratio Lower Upper

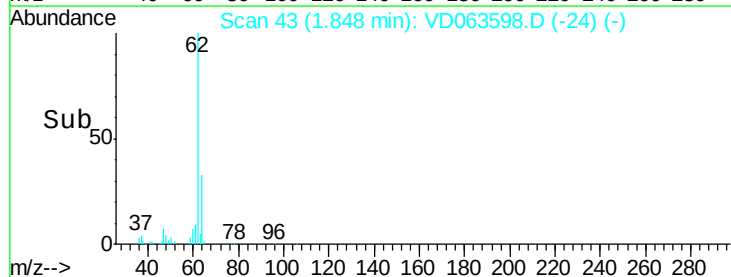
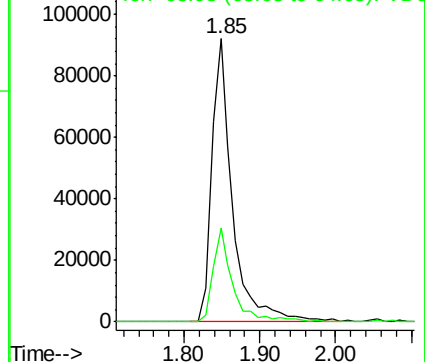
62 100

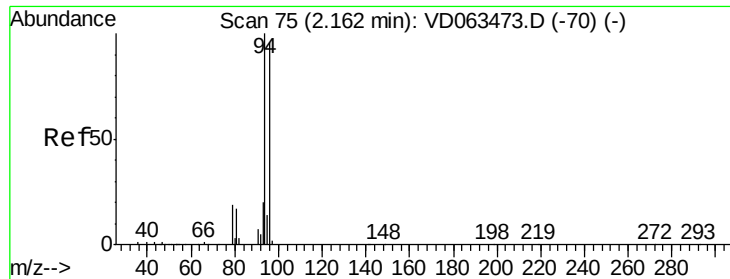
64 33.3 26.4 39.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 18.242 ug/l

RT: 2.14 min Scan# 73

Delta R.T. -0.02 min

Lab File: VD063598.D

Acq: 15 Aug 2019 4:00

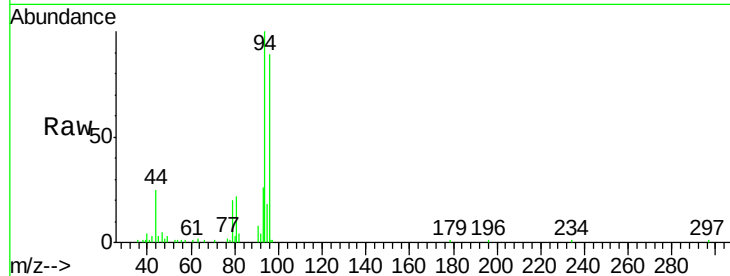
Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 94 Resp: 76283

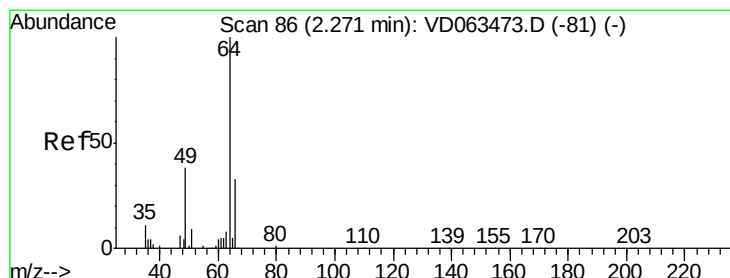
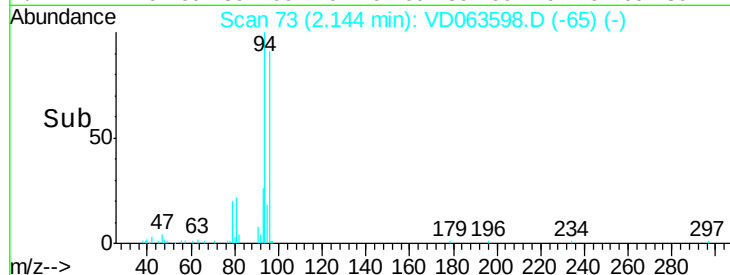
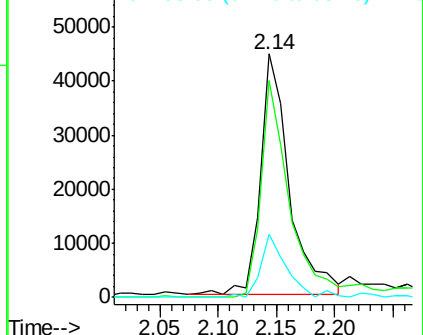
Ion	Ratio	Lower	Upper
94	100		
96	89.0	76.5	114.7
93	25.8	15.8	23.8



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: 20.986 ug/l

RT: 2.25 min Scan# 84

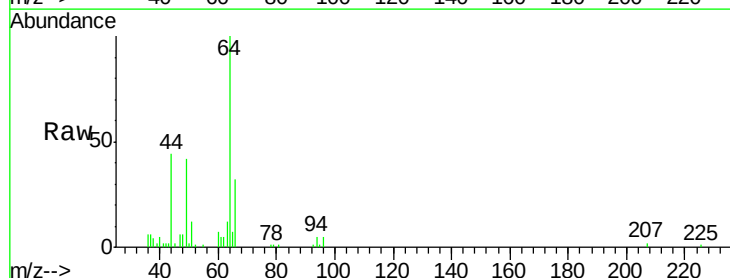
Delta R.T. -0.02 min

Lab File: VD063598.D

Acq: 15 Aug 2019 4:00

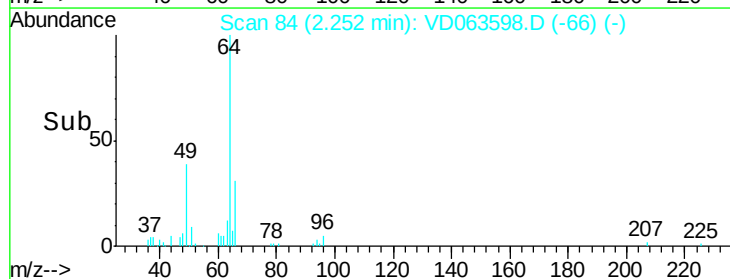
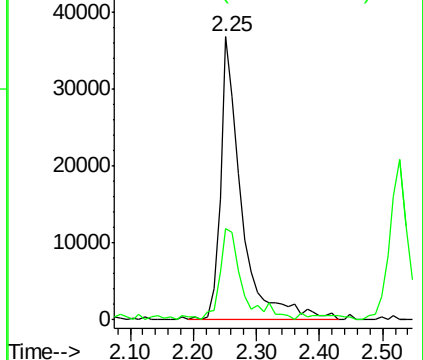
Tgt Ion: 64 Resp: 85051

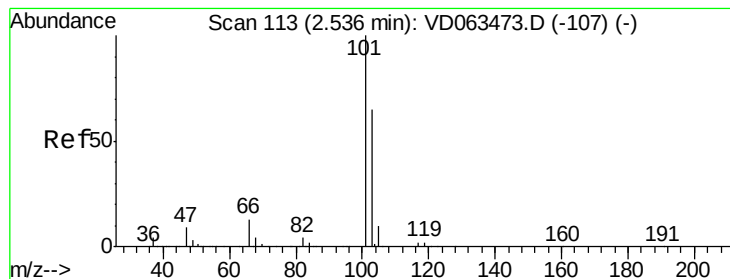
Ion	Ratio	Lower	Upper
64	100		
66	32.5	26.3	39.5



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



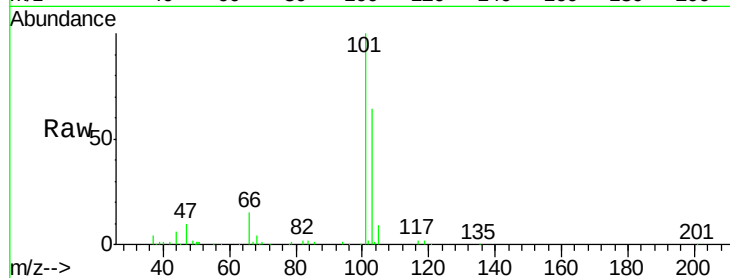


#7

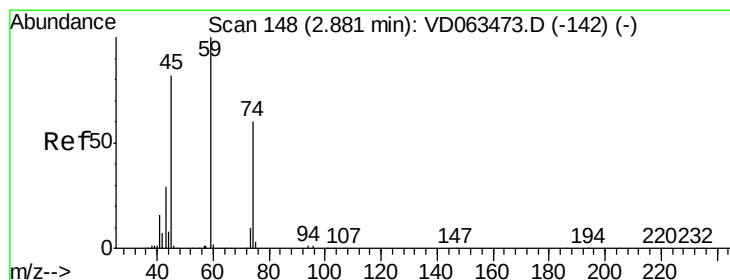
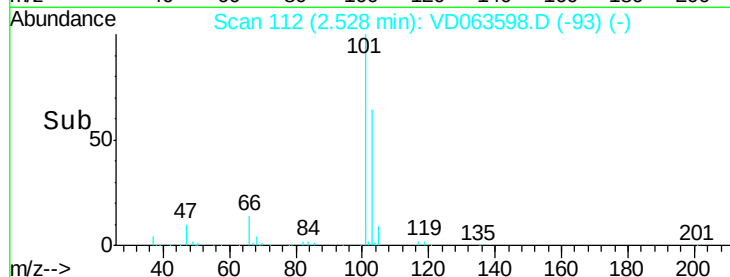
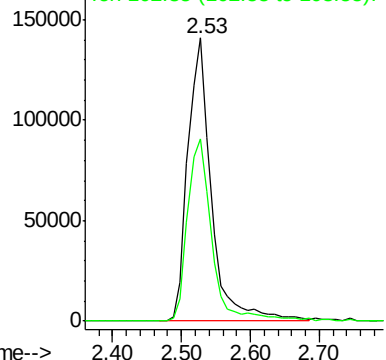
Trichlorofluoromethane
Concen: 19.365 ug/l
RT: 2.53 min Scan# 112
Delta R.T. -0.01 min
Lab File: VD063598.D
Acq: 15 Aug 2019 4:00

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:101 Resp: 336633
Ion Ratio Lower Upper
101 100
103 64.5 52.2 78.4



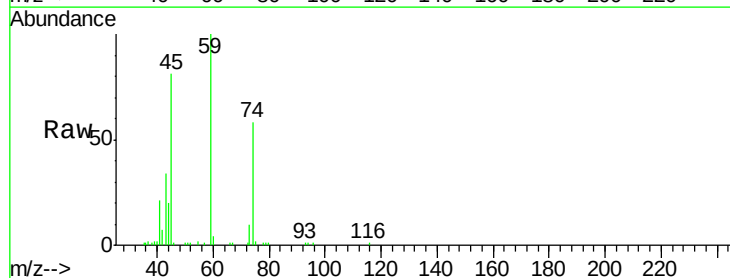
Abundance Ion 100.85 (100.55 to 101.55): V
Ion 102.85 (102.55 to 103.55): V



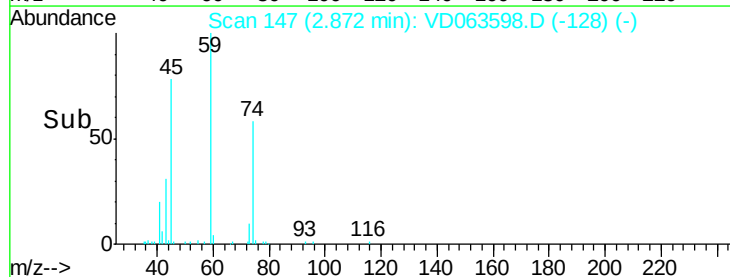
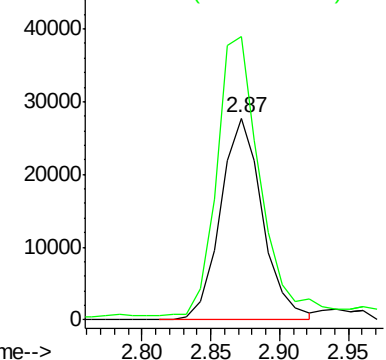
#8

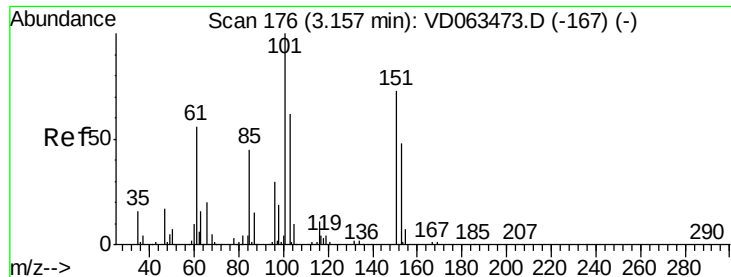
Diethyl Ether
Concen: 23.956 ug/l
RT: 2.87 min Scan# 147
Delta R.T. -0.01 min
Lab File: VD063598.D
Acq: 15 Aug 2019 4:00

Tgt Ion: 74 Resp: 58797
Ion Ratio Lower Upper
74 100
45 140.1 68.5 205.5



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: 19.628 ug/l

RT: 3.14 min Scan# 174

Delta R.T. -0.02 min

Lab File: VD063598.D

Acq: 15 Aug 2019 4:00

Instrument :

MSVOA_D

ClientSampled :

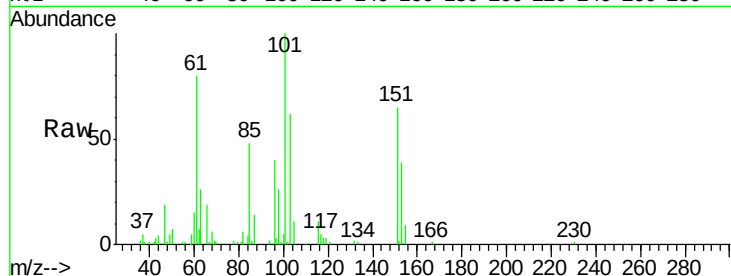
Tot Ion:101 Resp: 201477

Ion Ratio Lower Upper

101 100

85 48.2 35.8 53.6

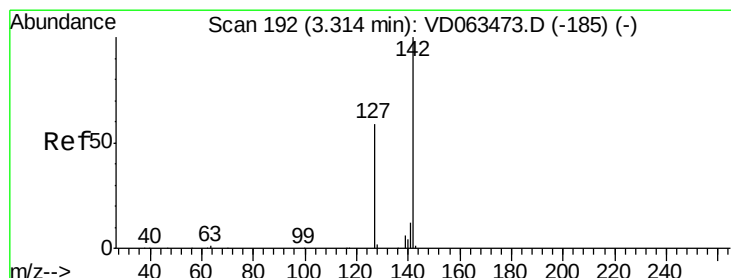
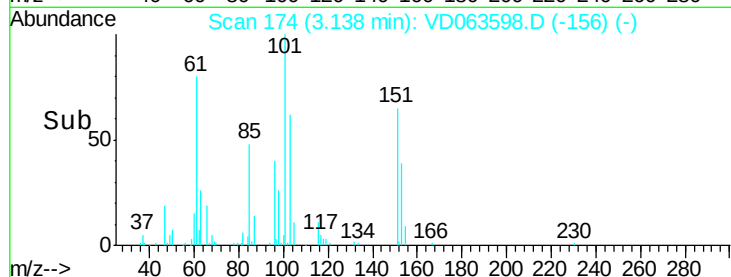
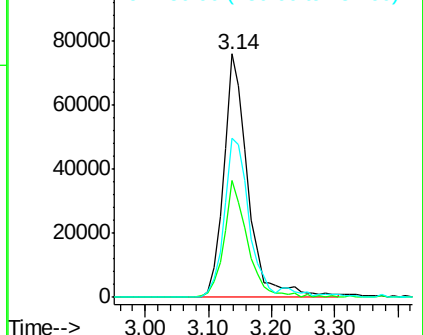
151 65.1 58.6 88.0



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: 20.367 ug/l

RT: 3.30 min Scan# 190

Delta R.T. -0.02 min

Lab File: VD063598.D

Acq: 15 Aug 2019 4:00

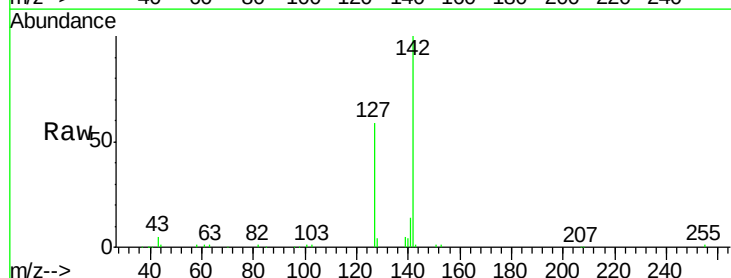
Tgt Ion:142 Resp: 295794

Ion Ratio Lower Upper

142 100

127 59.0 47.2 70.8

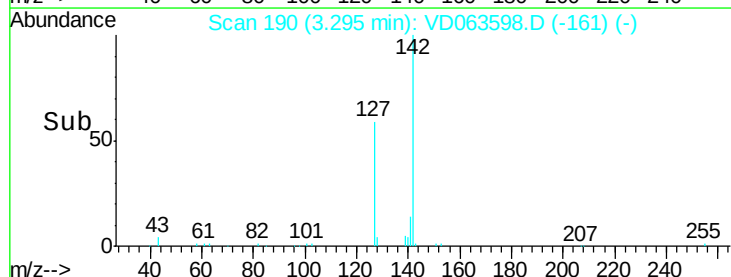
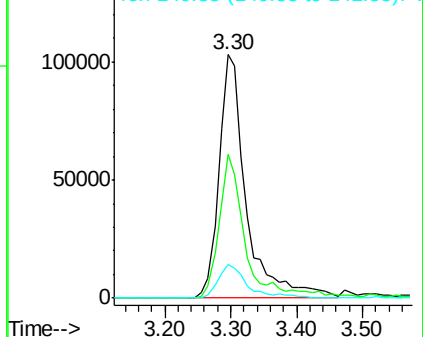
141 14.0 9.8 14.8

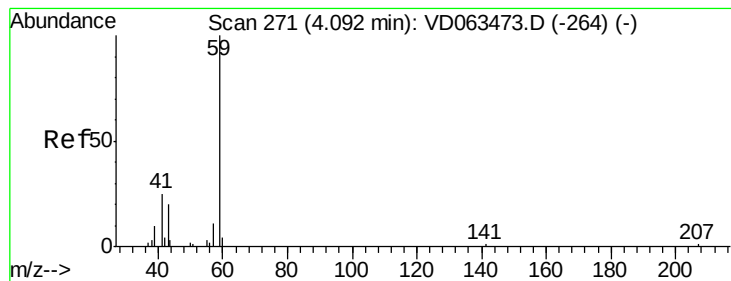


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V





#11

Tert butyl alcohol

Concen: 132.004 ug/l

RT: 4.08 min Scan# 270

Delta R.T. -0.01 min

Lab File: VD063598.D

Acq: 15 Aug 2019 4:00

Instrument :

MSVOA_D

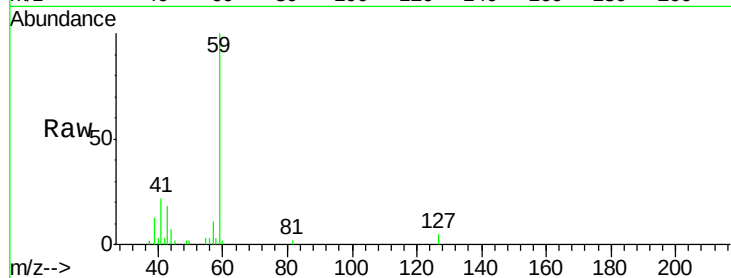
ClientSampleId :

Tot Ion: 59 Resp: 58013

Ion Ratio Lower Upper

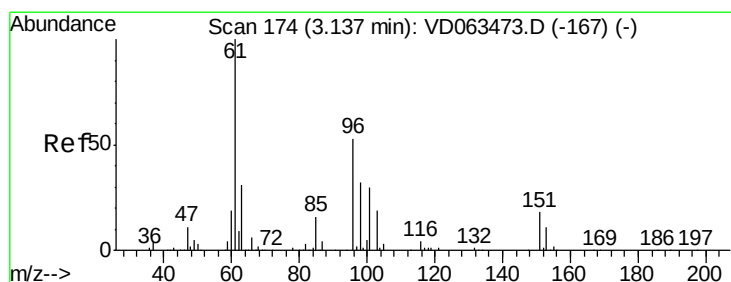
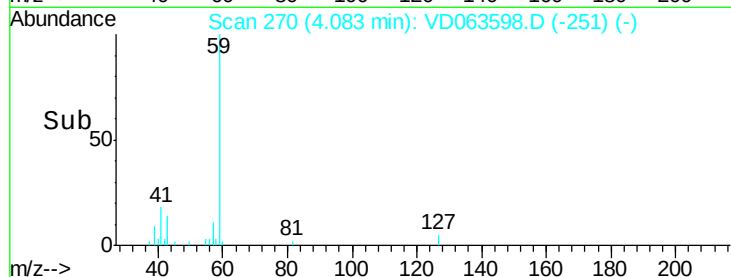
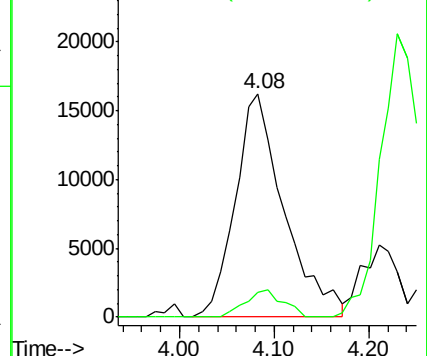
59 100

57 11.0 8.7 13.1



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC



#12

1,1-Dichloroethene

Concen: 18.978 ug/l

RT: 3.12 min Scan# 172

Delta R.T. -0.02 min

Lab File: VD063598.D

Acq: 15 Aug 2019 4:00

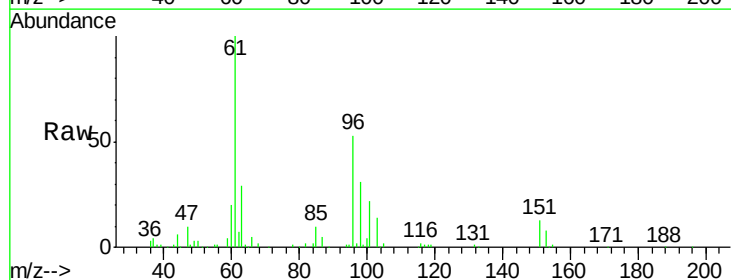
Tgt Ion: 96 Resp: 144830

Ion Ratio Lower Upper

96 100

61 187.8 151.7 227.5

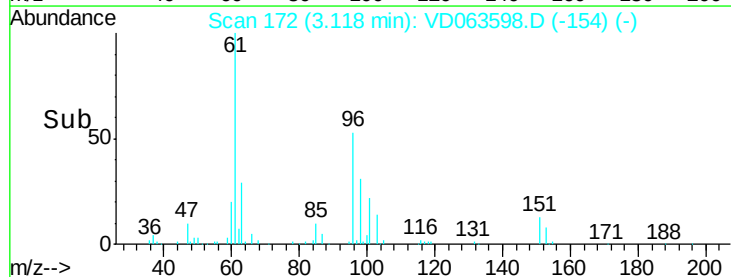
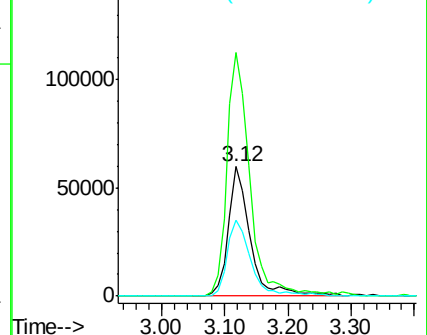
98 58.8 48.4 72.6

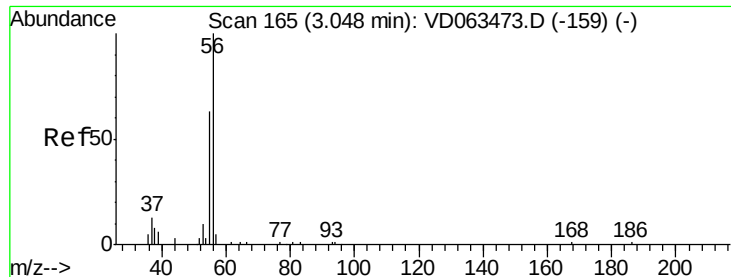


Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC





#13

Acrolein

Concen: 77.652 ug/l

RT: 3.03 min Scan# 163

Delta R.T. -0.02 min

Lab File: VD063598.D

Acq: 15 Aug 2019 4:00

Instrument :

MSVOA_D

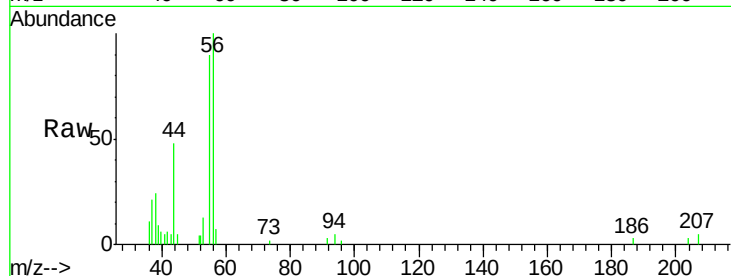
ClientSampleId :

Tot Ion: 56 Resp: 33591

Ion Ratio Lower Upper

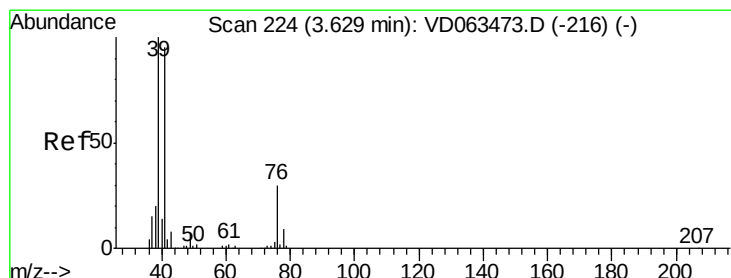
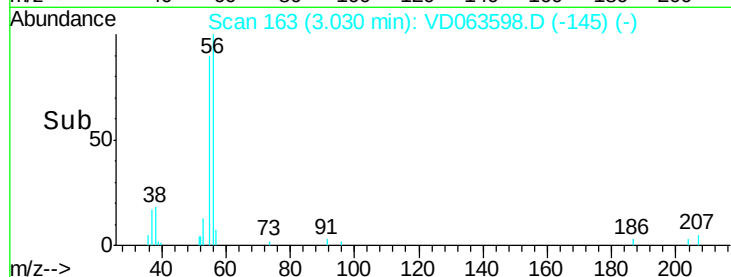
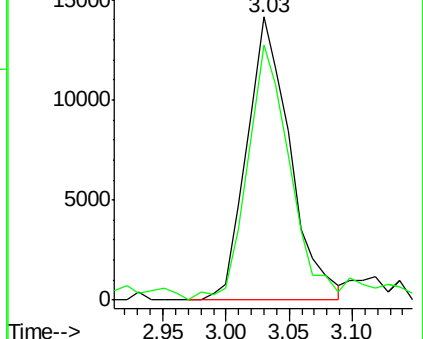
56 100

55 90.1 51.3 76.9#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 21.226 ug/l

RT: 3.61 min Scan# 222

Delta R.T. -0.02 min

Lab File: VD063598.D

Acq: 15 Aug 2019 4:00

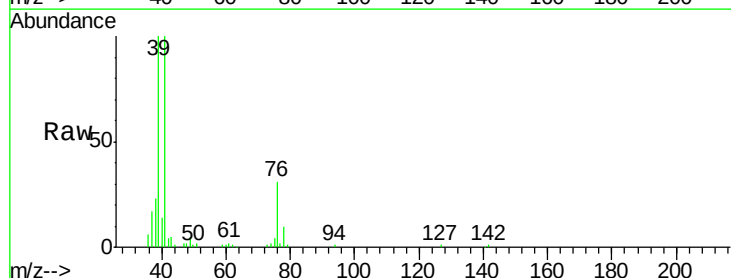
Tgt Ion: 41 Resp: 243520

Ion Ratio Lower Upper

41 100

39 99.8 84.2 126.4

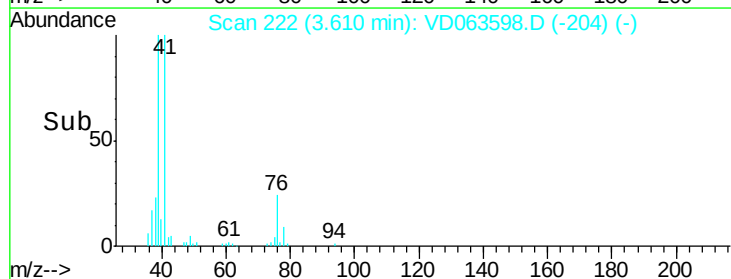
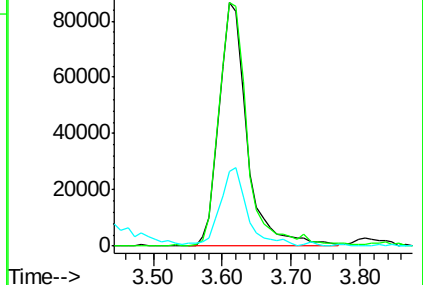
76 30.8 26.0 39.0

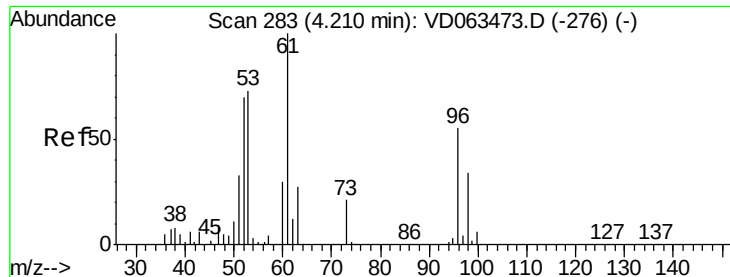


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 130.873 ug/l

RT: 4.19 min Scan# 281

Delta R.T. -0.02 min

Lab File: VD063598.D

Acq: 15 Aug 2019 4:00

Instrument :
MSVOA_D
ClientSampleId :

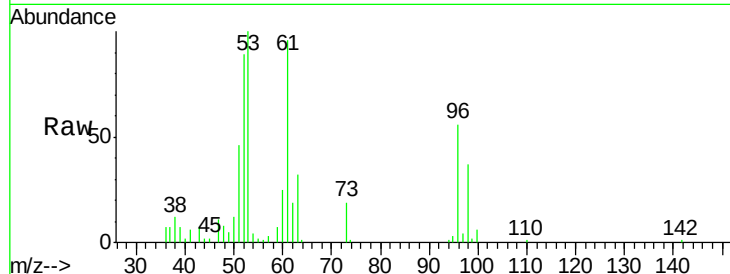
Tot Ion: 53 Resp: 152346

Ion Ratio Lower Upper

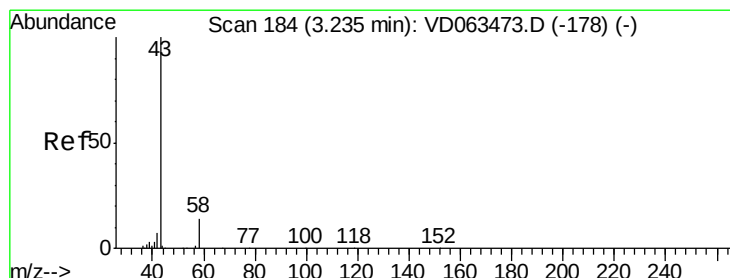
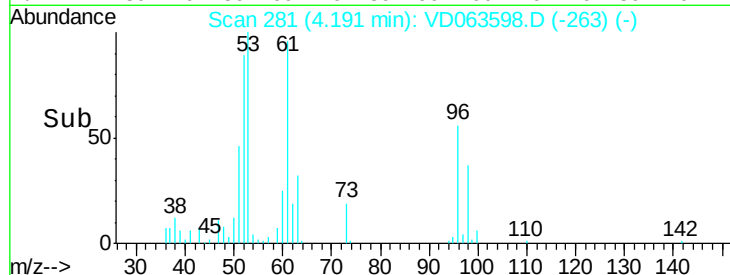
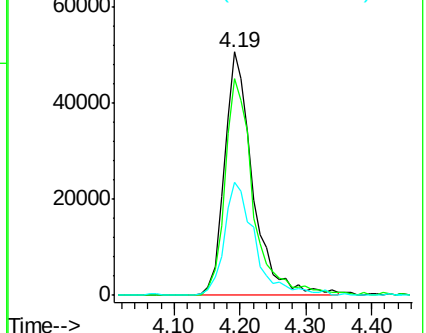
53 100

52 88.8 77.4 116.0

51 46.3 36.7 55.1



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



#16

Acetone

Concen: 104.942 ug/l

RT: 3.23 min Scan# 183

Delta R.T. -0.01 min

Lab File: VD063598.D

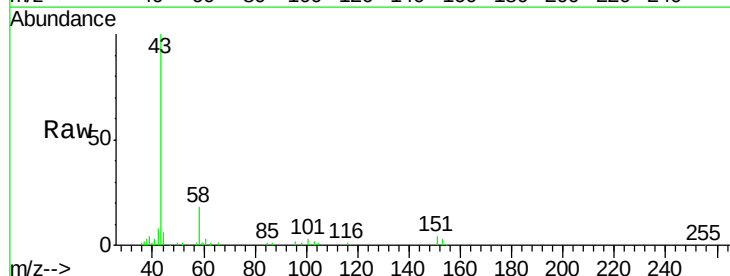
Acq: 15 Aug 2019 4:00

Tgt Ion: 43 Resp: 215363

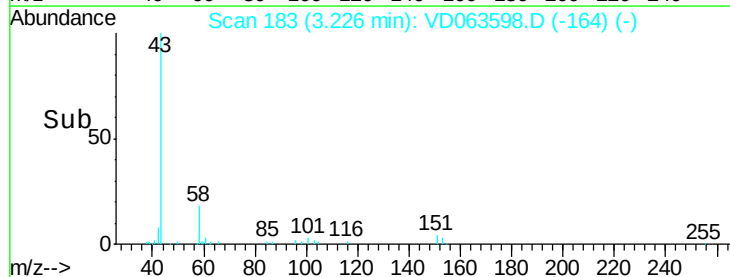
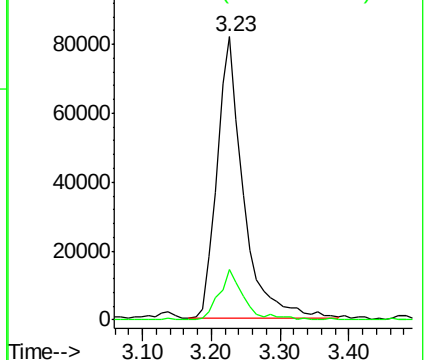
Ion Ratio Lower Upper

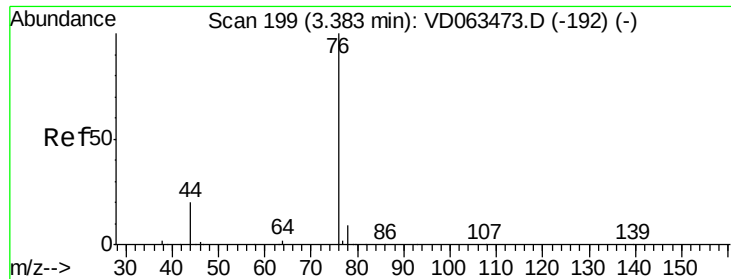
43 100

58 17.7 11.4 17.2#



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

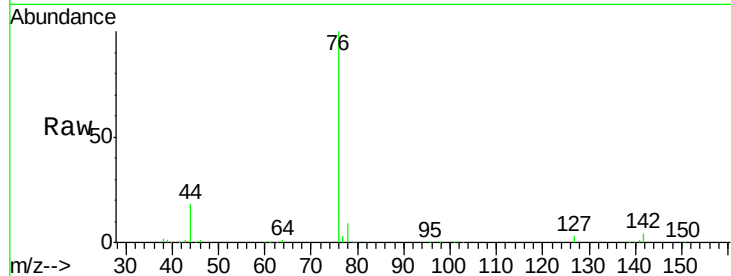




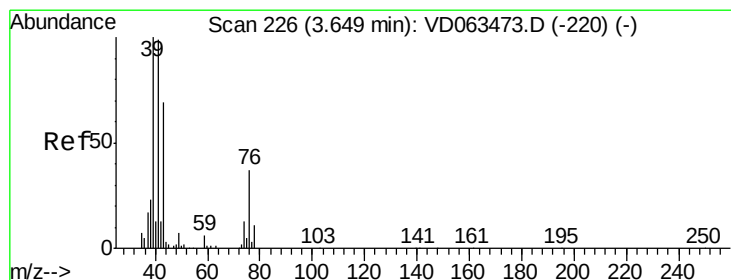
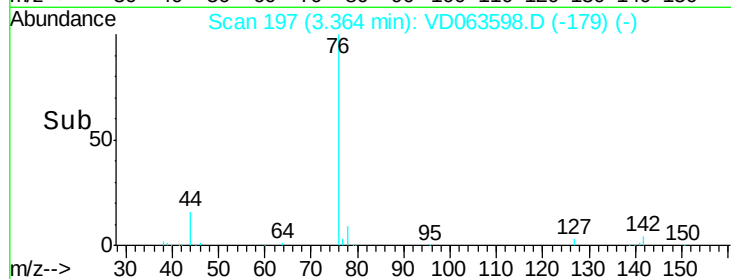
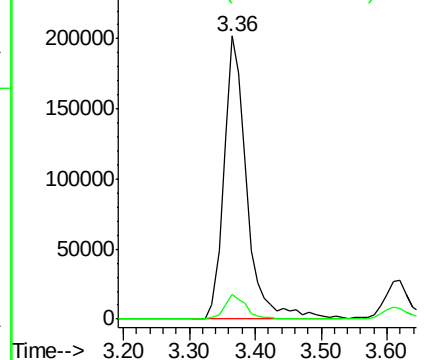
#17
Carbon Disulfide
Concen: 20.193 ug/l
RT: 3.36 min Scan# 197
Delta R.T. -0.02 min
Lab File: VD063598.D
Acq: 15 Aug 2019 4:00

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 76 Resp: 486354
Ion Ratio Lower Upper
76 100
78 8.8 7.4 11.0

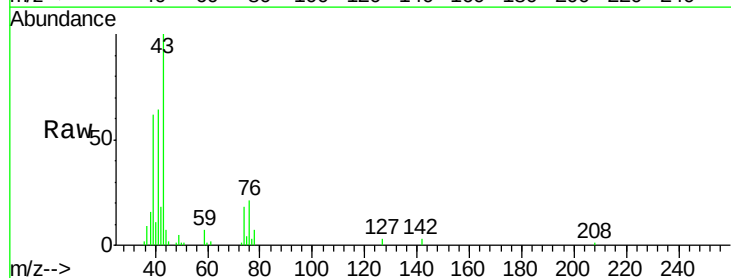


Abundance Ion 75.85 (75.55 to 76.55): VDC
Ion 77.85 (77.55 to 78.55): VDC

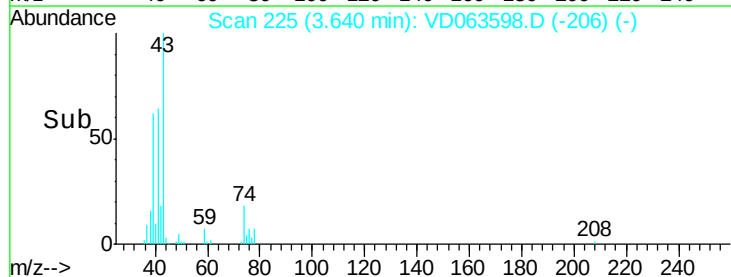
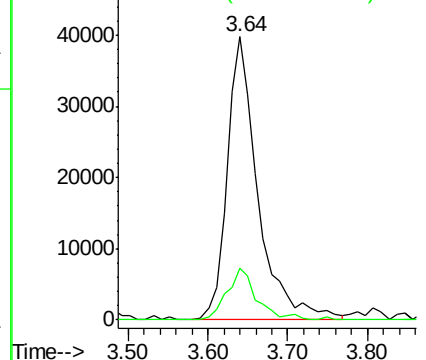


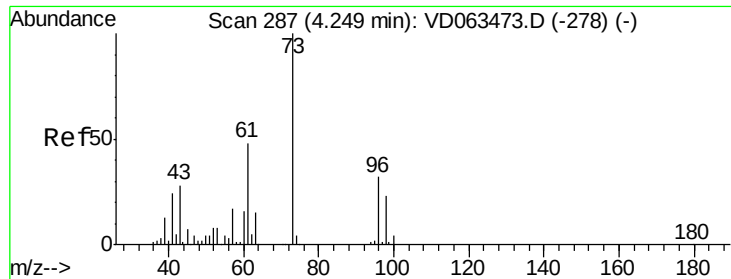
#18
Methyl Acetate
Concen: 27.638 ug/l
RT: 3.64 min Scan# 225
Delta R.T. -0.01 min
Lab File: VD063598.D
Acq: 15 Aug 2019 4:00

Tgt Ion: 43 Resp: 107432
Ion Ratio Lower Upper
43 100
74 18.1 15.4 23.2



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

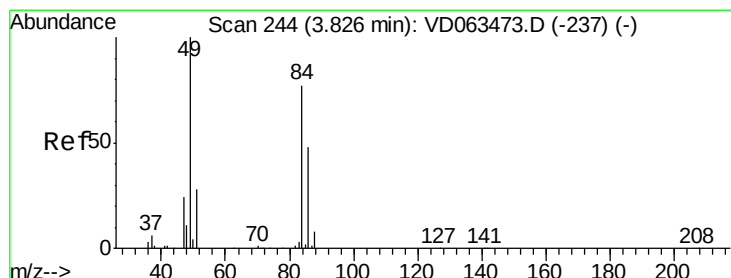
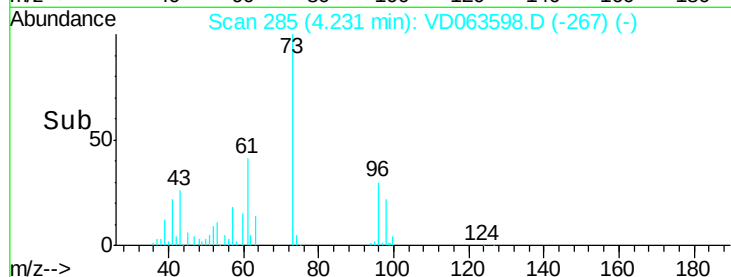
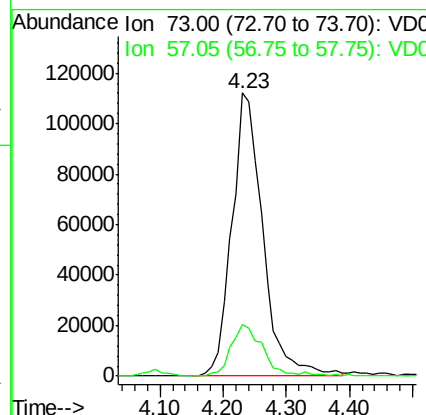
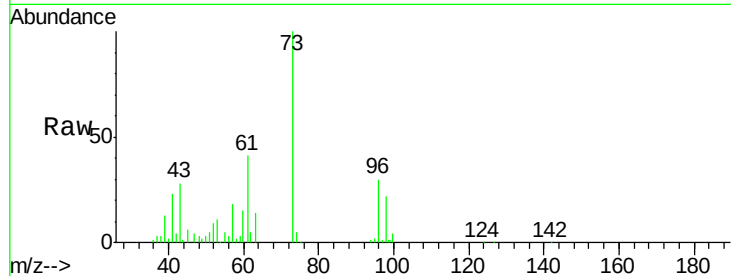




#19
Methyl tert-butyl Ether
Concen: 24.929 ug/l
RT: 4.23 min Scan# 285
Delta R.T. -0.02 min
Lab File: VD063598.D
Acq: 15 Aug 2019 4:00

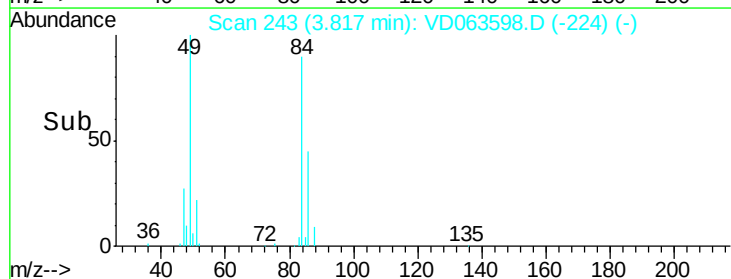
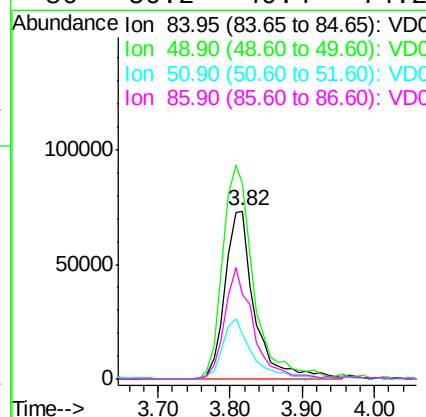
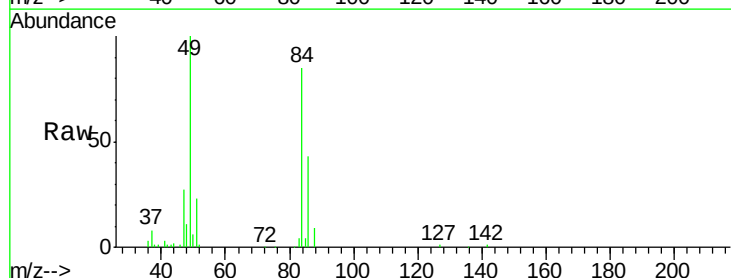
Instrument :
MSVOA_D
ClientSampleId :

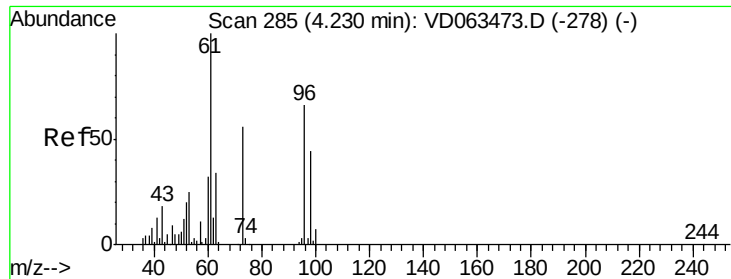
Tot Ion: 73 Resp: 380476
Ion Ratio Lower Upper
73 100
57 18.3 14.0 21.0



#20
Methylene Chloride
Concen: 23.342 ug/l
RT: 3.82 min Scan# 243
Delta R.T. -0.01 min
Lab File: VD063598.D
Acq: 15 Aug 2019 4:00

Tgt Ion: 84 Resp: 207134
Ion Ratio Lower Upper
84 100
49 117.0 103.4 155.2
51 26.3 28.5 42.7#
86 50.2 49.4 74.2





#21

trans-1,2-Dichloroethene

Concen: 22.403 ug/l

RT: 4.21 min Scan# 283

Delta R.T. -0.02 min

Lab File: VD063598.D

Acq: 15 Aug 2019 4:00

Instrument :

MSVOA_D

ClientSampleId :

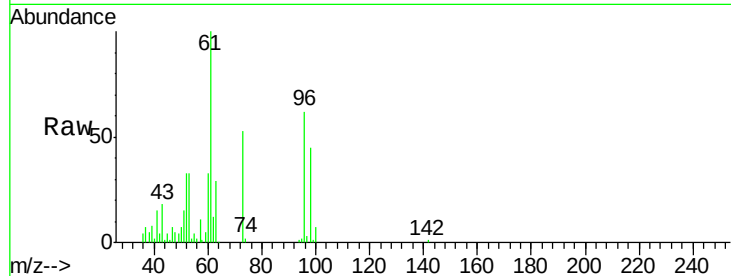
Tot Ion: 96 Resp: 179917

Ion Ratio Lower Upper

96 100

61 162.0 121.7 182.5

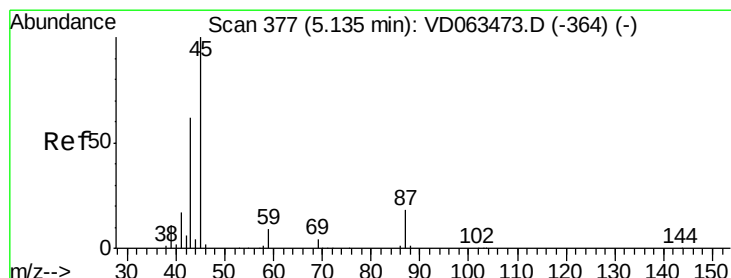
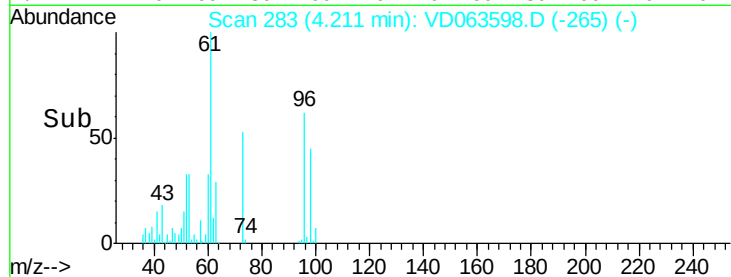
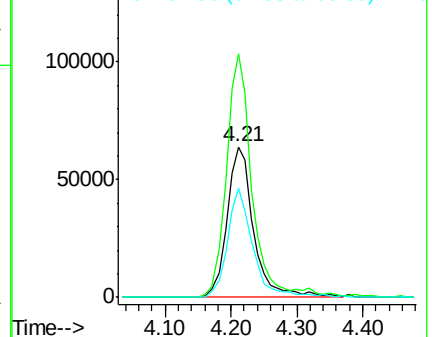
98 72.5 54.2 81.2



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: 23.000 ug/l

RT: 5.13 min Scan# 376

Delta R.T. -0.01 min

Lab File: VD063598.D

Acq: 15 Aug 2019 4:00

Tgt Ion: 45 Resp: 544490

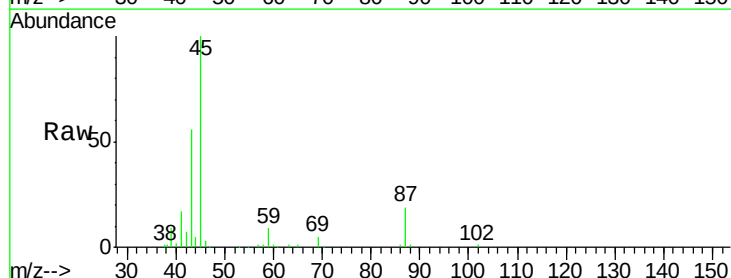
Ion Ratio Lower Upper

45 100

43 56.4 50.3 75.5

87 18.5 14.3 21.5

59 8.7 7.7 11.5

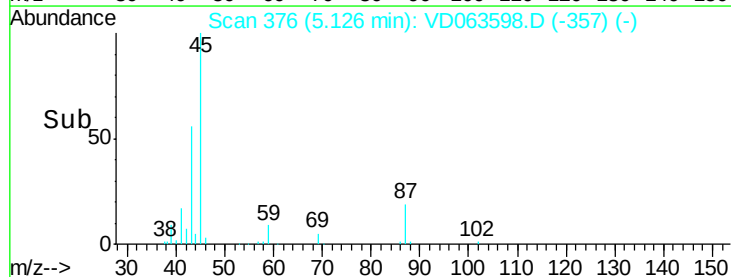
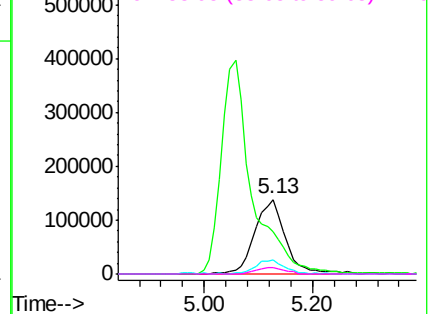


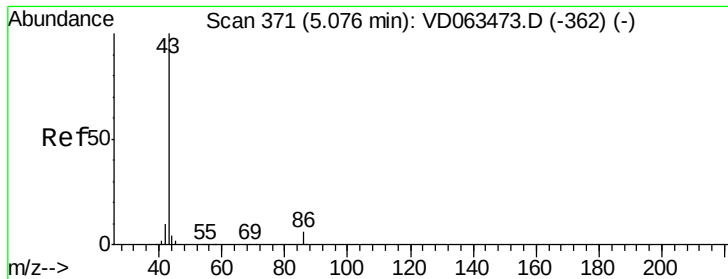
Abundance Ion 45.05 (44.75 to 45.75): VDC

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: 113.058 ug/l

RT: 5.06 min Scan# 369

Delta R.T. -0.02 min

Lab File: VD063598.D

Acq: 15 Aug 2019 4:00

Instrument :

MSVOA_D

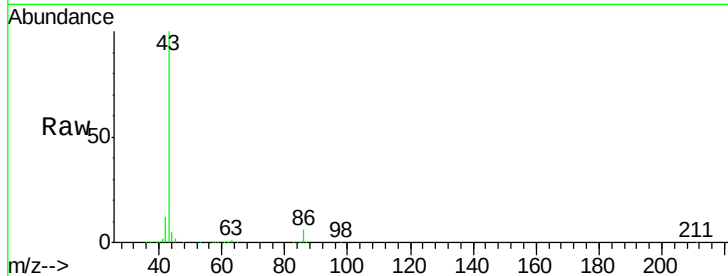
ClientSampleId :

Tot Ion: 43 Resp: 1555999

Ion Ratio Lower Upper

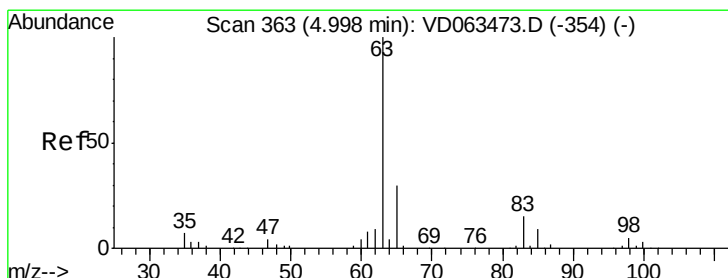
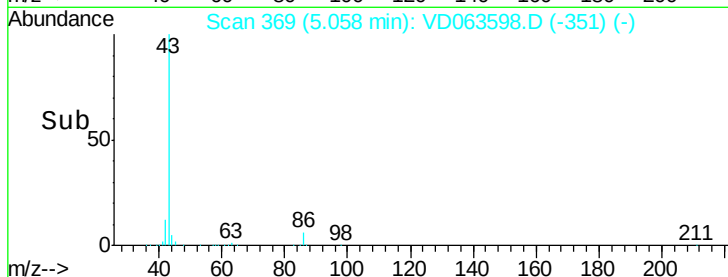
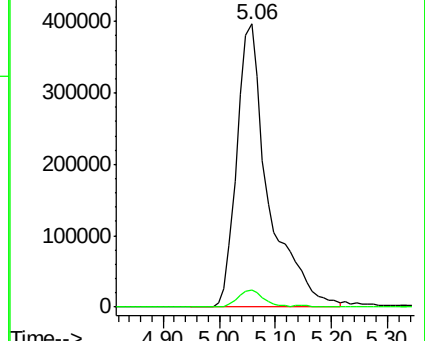
43 100

86 6.0 4.8 7.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 22.689 ug/l

RT: 4.98 min Scan# 361

Delta R.T. -0.02 min

Lab File: VD063598.D

Acq: 15 Aug 2019 4:00

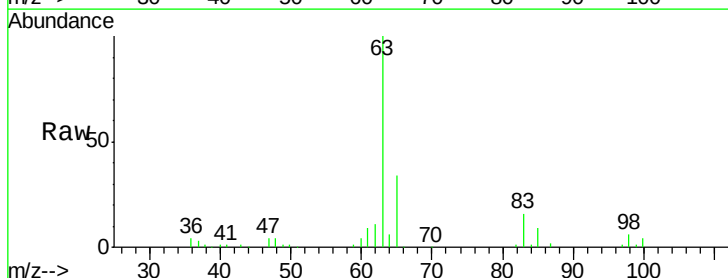
Tgt Ion: 63 Resp: 333140

Ion Ratio Lower Upper

63 100

98 5.8 2.4 7.2

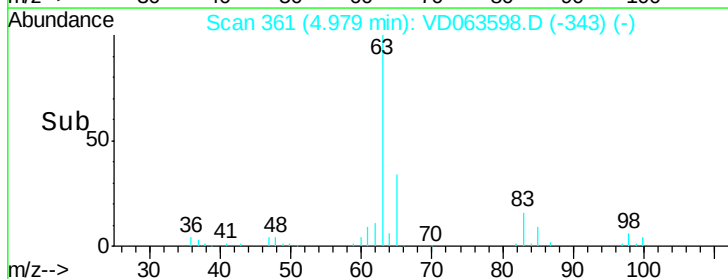
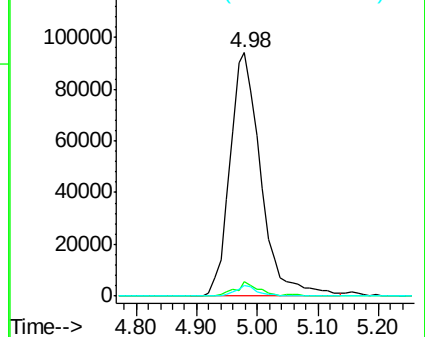
100 4.4 1.3 3.8#

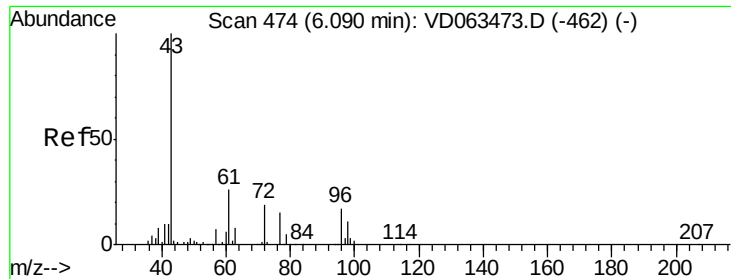


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 113.383 ug/l

RT: 6.07 min Scan# 472

Delta R.T. -0.02 min

Lab File: VD063598.D

Acq: 15 Aug 2019 4:00

Instrument :

MSVOA_D

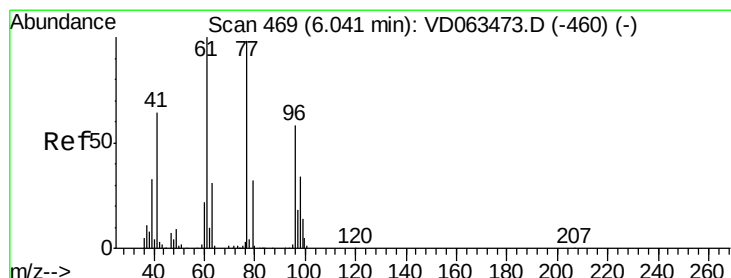
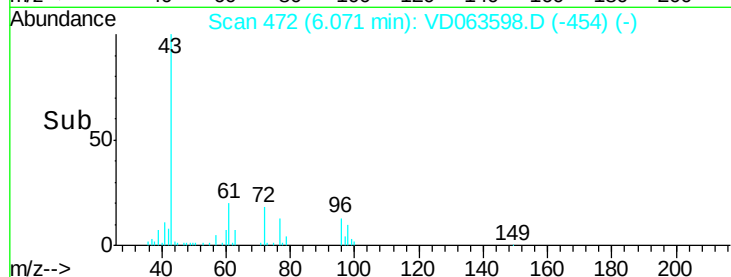
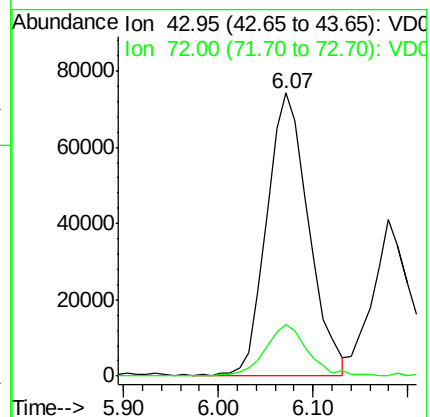
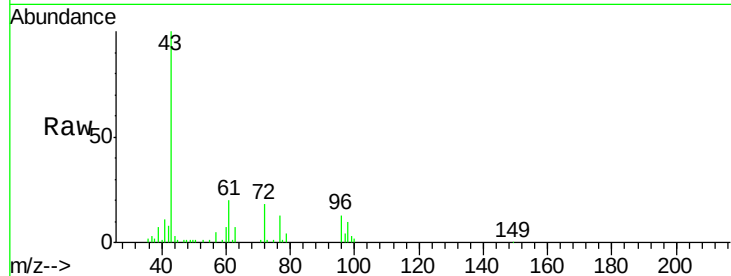
ClientSampled :

Tot Ion: 43 Resp: 229810

Ion Ratio Lower Upper

43 100

72 18.2 15.1 22.7



#26

2,2-Dichloropropane

Concen: 19.886 ug/l

RT: 6.02 min Scan# 467

Delta R.T. -0.02 min

Lab File: VD063598.D

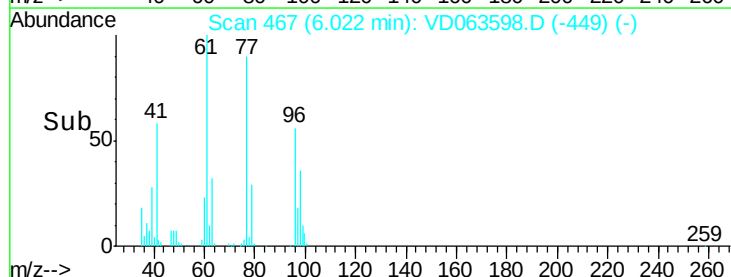
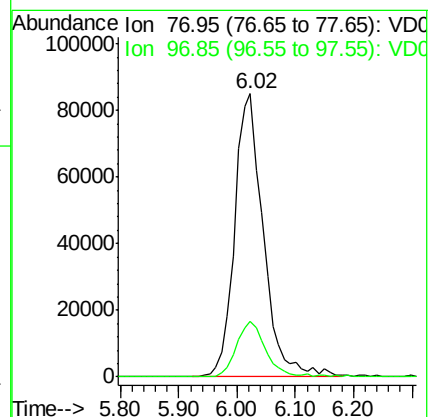
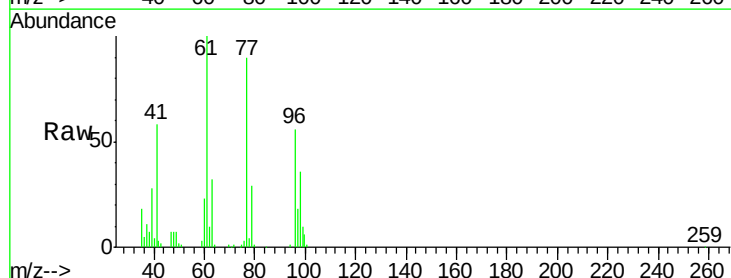
Acq: 15 Aug 2019 4:00

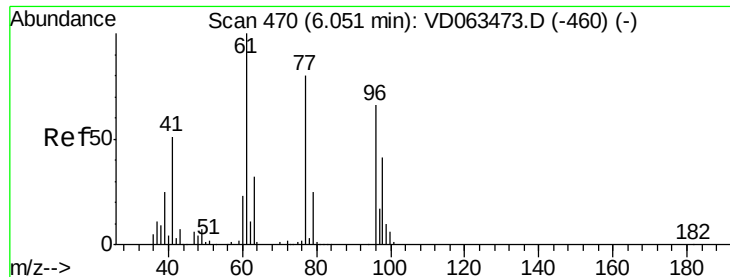
Tgt Ion: 77 Resp: 290835

Ion Ratio Lower Upper

77 100

97 19.8 9.0 27.1



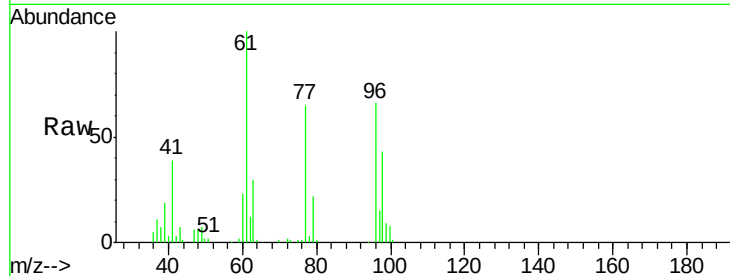


#27

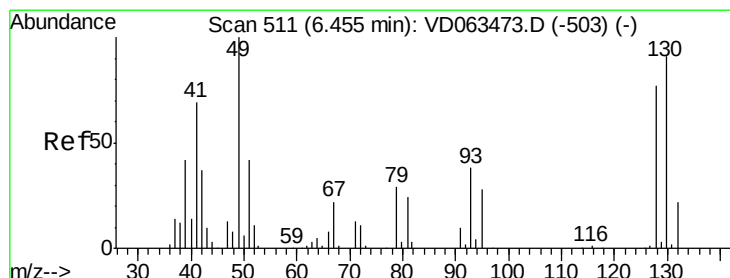
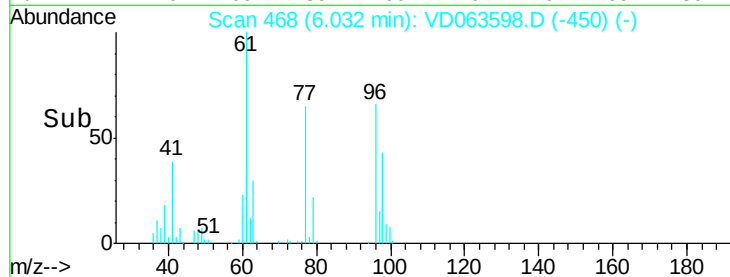
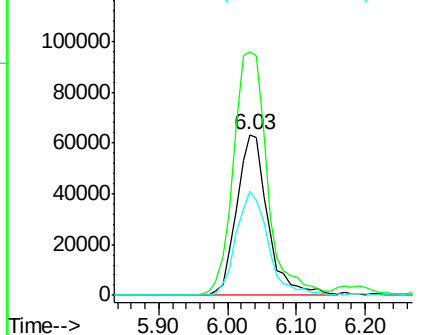
cis-1,2-Dichloroethene
Concen: 22.492 ug/l
RT: 6.03 min Scan# 468
Delta R.T. -0.02 min
Lab File: VD063598.D
Acq: 15 Aug 2019 4:00

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 96 Resp: 197623
Ion Ratio Lower Upper
96 100
61 151.5 0.0 304.0
98 64.7 0.0 124.8



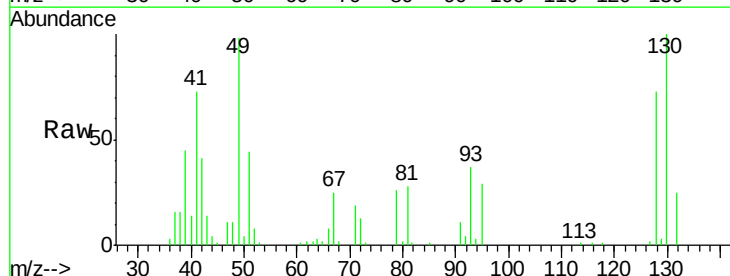
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



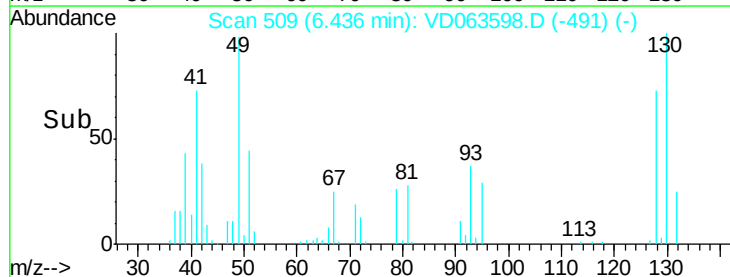
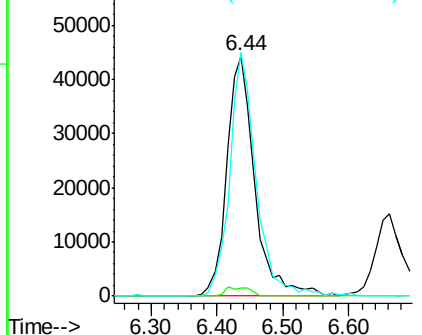
#28

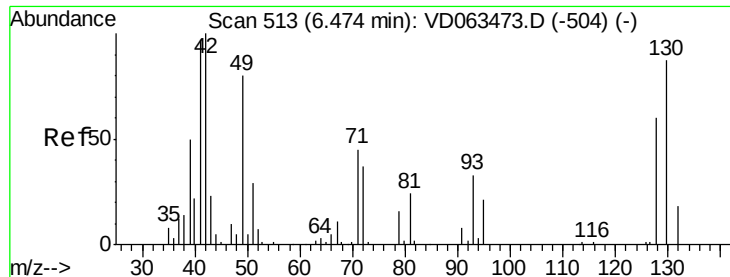
Bromochloromethane
Concen: 22.033 ug/l
RT: 6.44 min Scan# 509
Delta R.T. -0.02 min
Lab File: VD063598.D
Acq: 15 Aug 2019 4:00

Tgt Ion: 49 Resp: 131114
Ion Ratio Lower Upper
49 100
129 3.1 0.0 6.4
130 101.6 72.4 108.6



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





#29

Tetrahydrofuran

Concen: 123.582 ug/l

RT: 6.47 min Scan# 512

Delta R.T. -0.01 min

Lab File: VD063598.D

Acq: 15 Aug 2019 4:00

Instrument :

MSVOA_D

ClientSampleId :

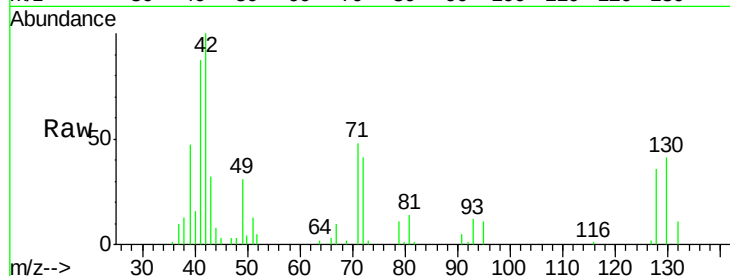
Tot Ion: 42 Resp: 116718

Ion Ratio Lower Upper

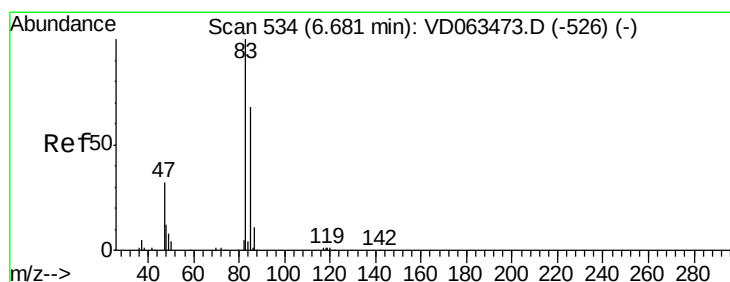
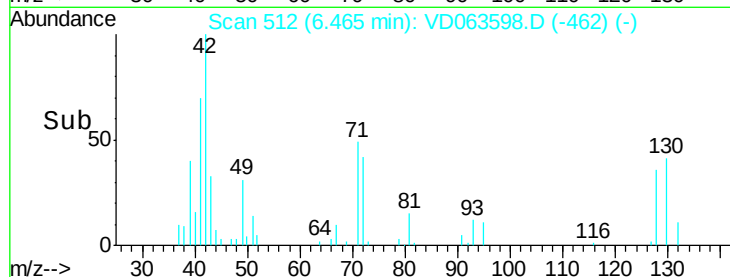
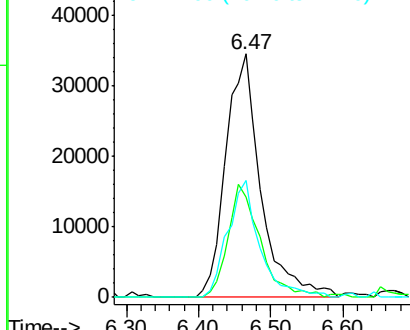
42 100

72 42.6 31.5 47.3

71 43.9 33.8 50.8



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: 22.140 ug/l

RT: 6.66 min Scan# 532

Delta R.T. -0.02 min

Lab File: VD063598.D

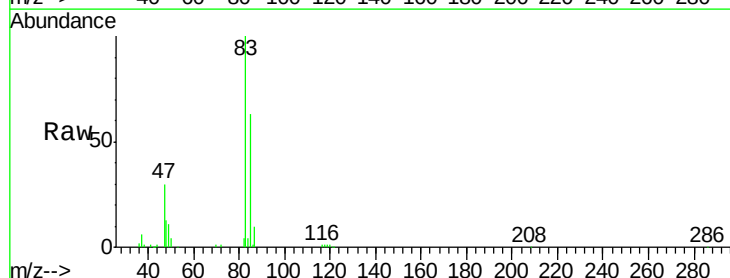
Acq: 15 Aug 2019 4:00

Tgt Ion: 83 Resp: 404073

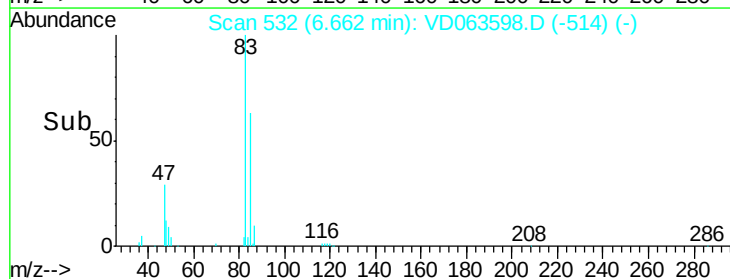
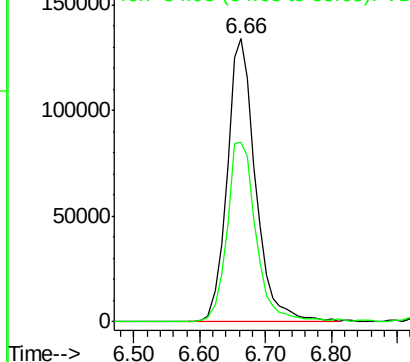
Ion Ratio Lower Upper

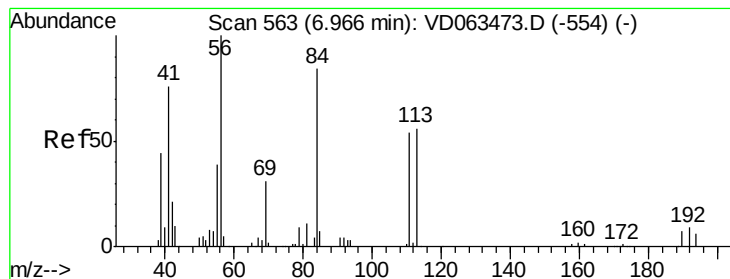
83 100

85 63.3 54.8 82.2



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





#31

Cyclohexane

Concen: 19.906 ug/l

RT: 6.95 min Scan# 561

Delta R.T. -0.02 min

Lab File: VD063598.D

Acq: 15 Aug 2019 4:00

Instrument :

MSVOA_D

ClientSampleId :

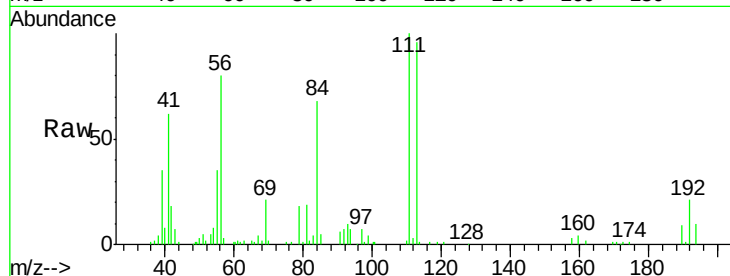
Tot Ion: 56 Resp: 181451

Ion Ratio Lower Upper

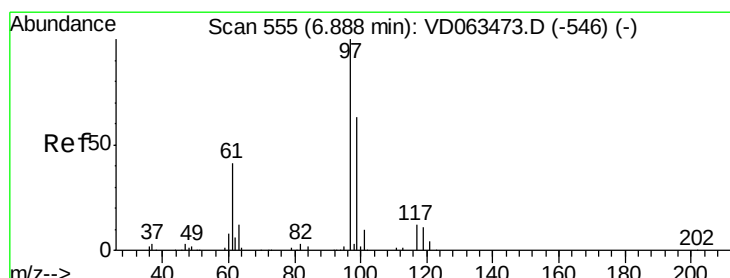
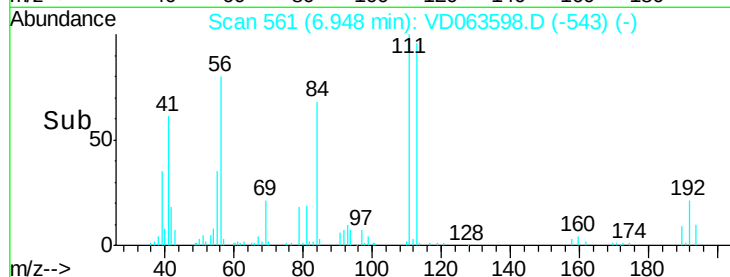
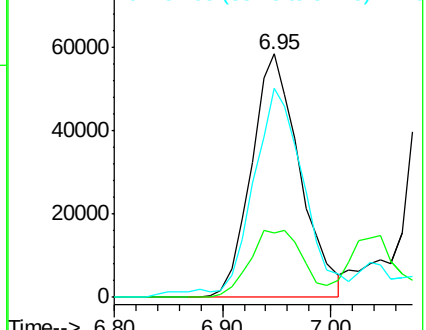
56 100

69 26.6 25.0 37.6

84 85.8 69.7 104.5



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: 20.889 ug/l

RT: 6.87 min Scan# 553

Delta R.T. -0.02 min

Lab File: VD063598.D

Acq: 15 Aug 2019 4:00

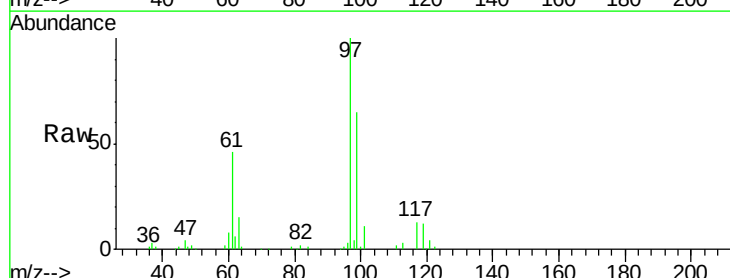
Tgt Ion: 97 Resp: 364693

Ion Ratio Lower Upper

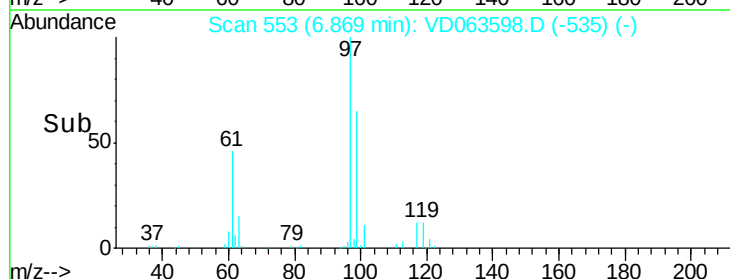
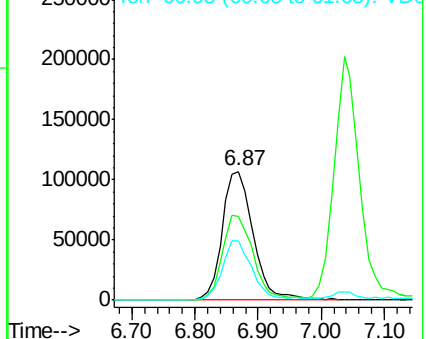
97 100

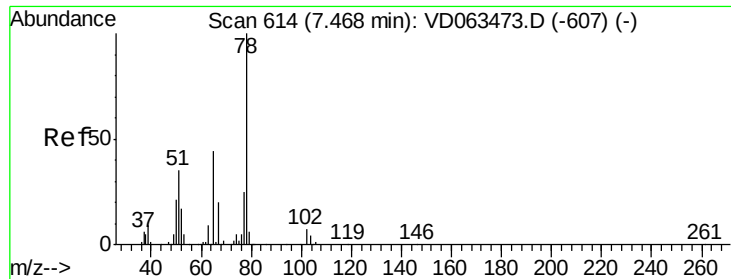
99 64.7 50.2 75.4

61 46.3 33.1 49.7



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

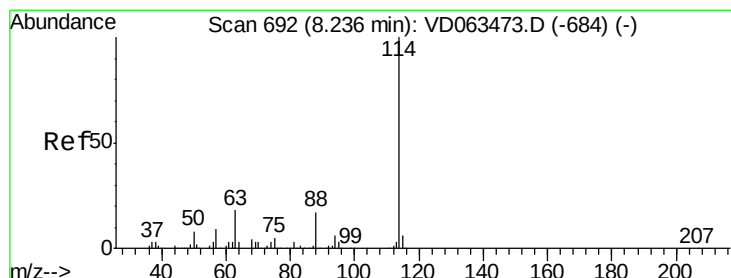
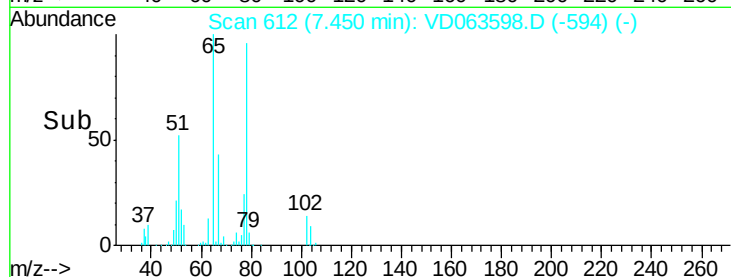
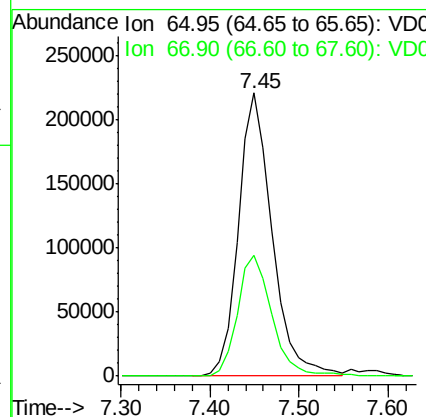
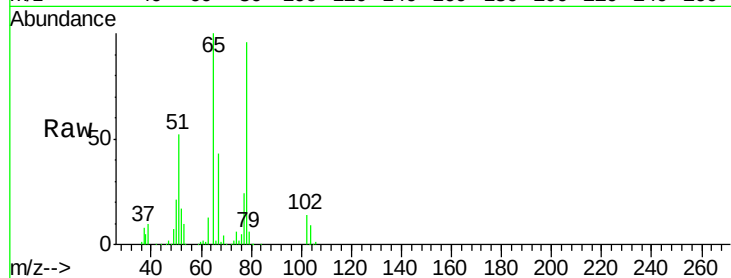




#33
 1,2-Dichloroethane-d4
 Concen: 57.568 ug/l
 RT: 7.45 min Scan# 612
 Delta R.T. -0.02 min
 Lab File: VD063598.D
 Acq: 15 Aug 2019 4:00

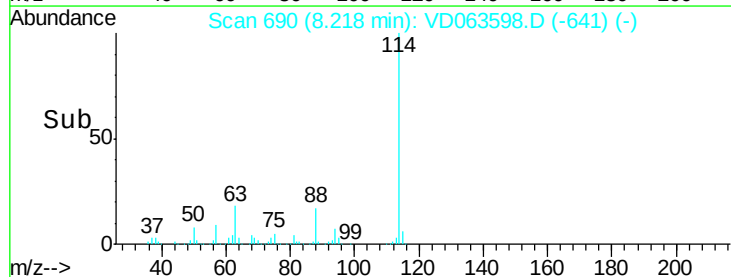
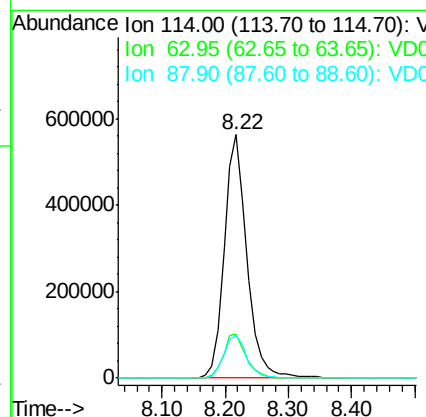
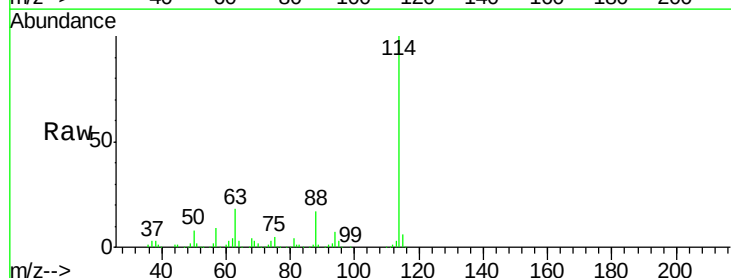
Instrument :
 MSVOA_D
 ClientSampled :

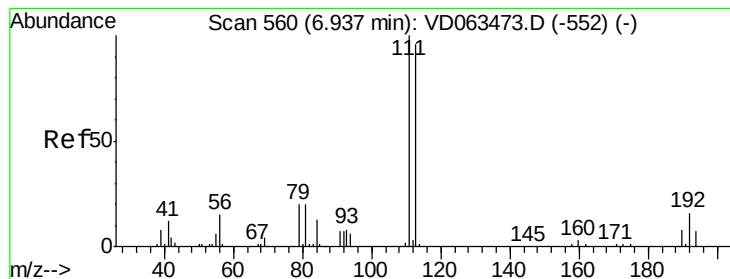
Tot Ion: 65 Resp: 581176
 Ion Ratio Lower Upper
 65 100
 67 42.6 0.0 89.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. -0.02 min
 Lab File: VD063598.D
 Acq: 15 Aug 2019 4:00

Tgt Ion: 114 Resp: 1405126
 Ion Ratio Lower Upper
 114 100
 63 18.3 0.0 36.2
 88 17.5 0.0 35.0





#35

Dibromofluoromethane

Concen: 51.838 ug/l

RT: 6.92 min Scan# 558

Delta R.T. -0.02 min

Lab File: VD063598.D

Acq: 15 Aug 2019 4:00

Instrument :

MSVOA_D

ClientSampled :

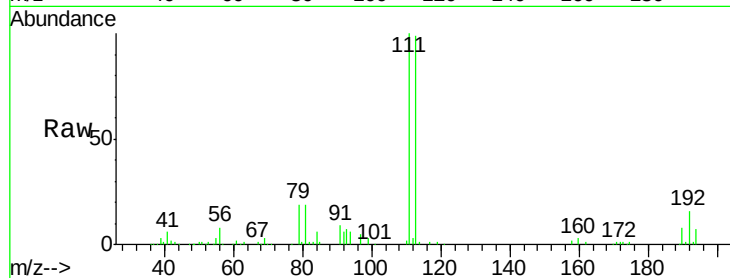
Tot Ion:113 Resp: 613458

Ion Ratio Lower Upper

113 100

111 100.6 83.1 124.7

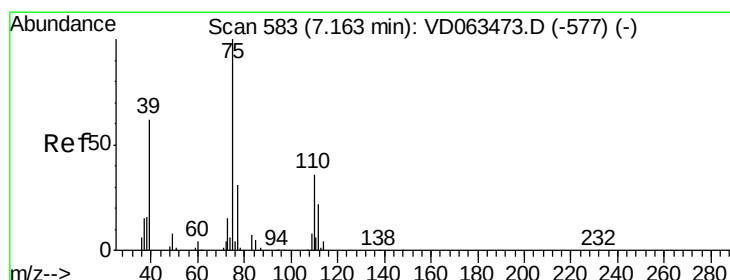
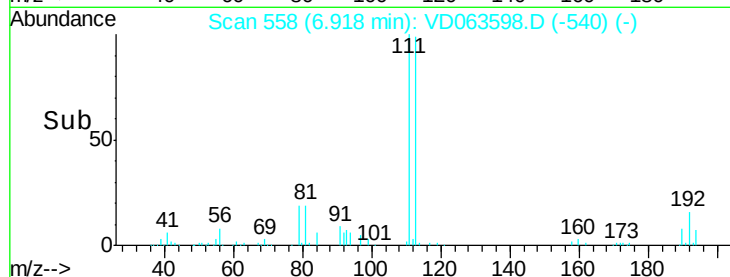
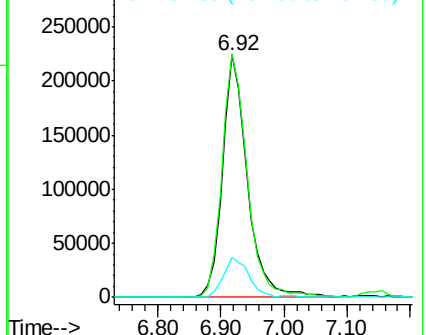
192 16.3 13.1 19.7



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: 19.218 ug/l

RT: 7.14 min Scan# 581

Delta R.T. -0.02 min

Lab File: VD063598.D

Acq: 15 Aug 2019 4:00

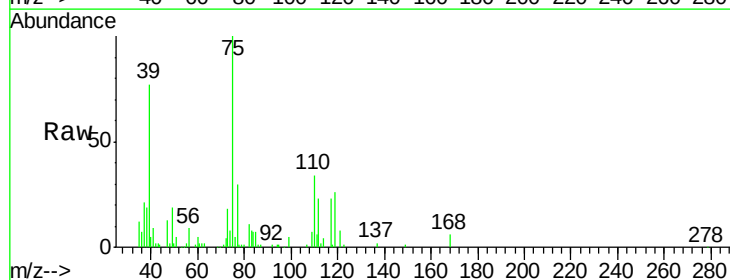
Tgt Ion: 75 Resp: 238717

Ion Ratio Lower Upper

75 100

110 34.5 17.6 52.8

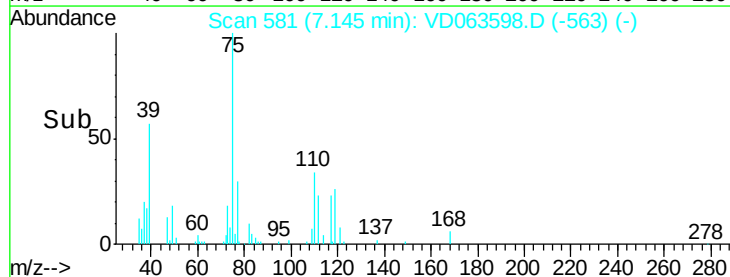
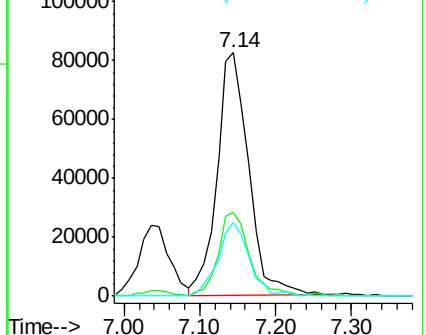
77 30.3 24.3 36.5

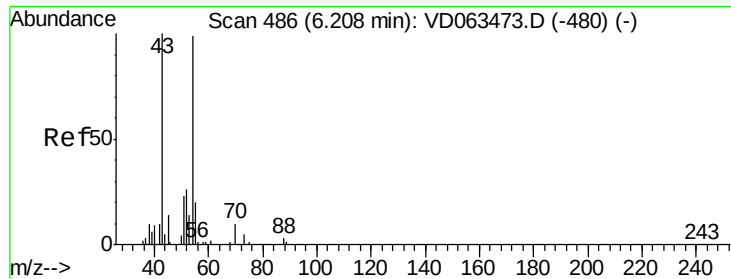


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): VDC

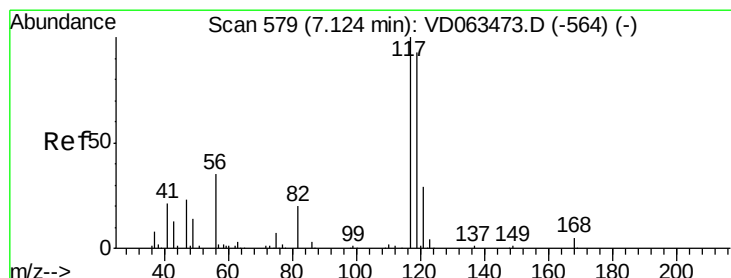
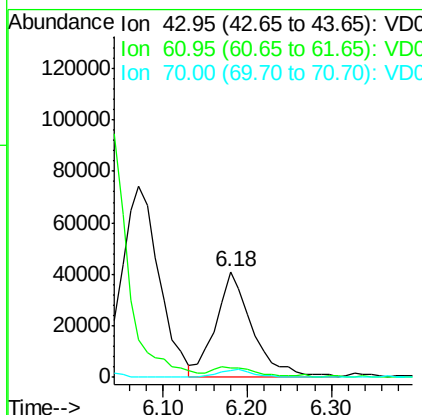
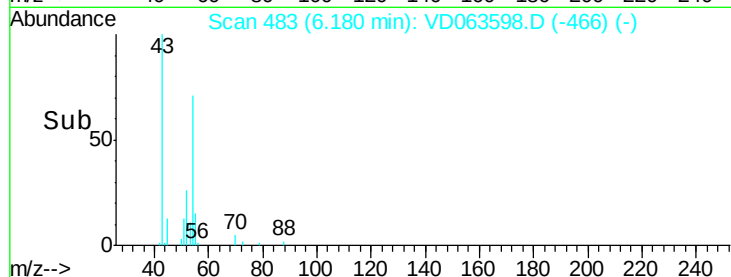
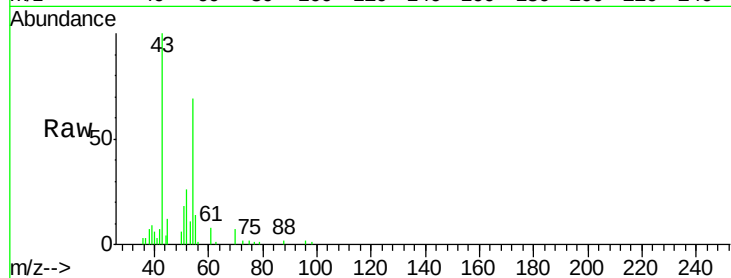




#37
Ethyl Acetate
Concen: 23.142 ug/l
RT: 6.18 min Scan# 483
Delta R.T. -0.03 min
Lab File: VD063598.D
Acq: 15 Aug 2019 4:00

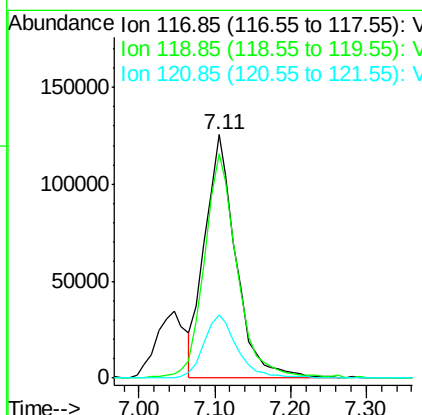
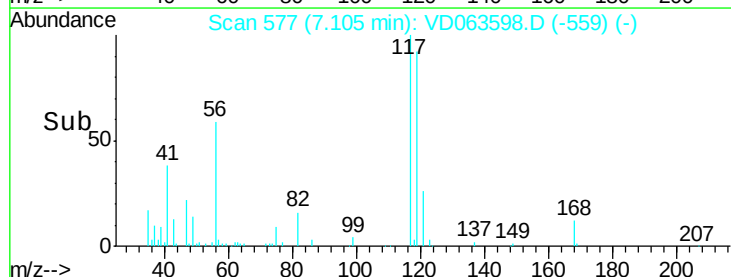
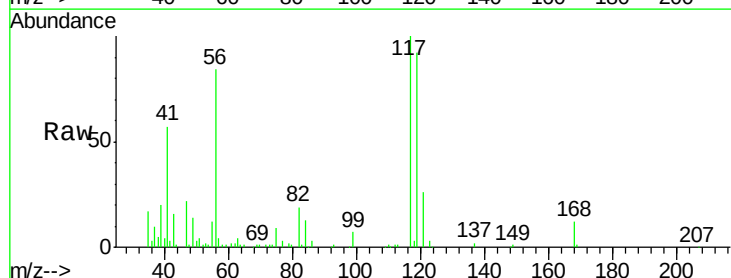
Instrument :
MSVOA_D
ClientSampleId :

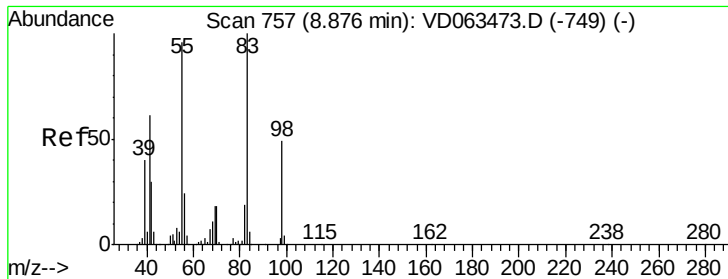
Tot Ion: 43 Resp: 120455
Ion Ratio Lower Upper
43 100
61 8.3 9.0 13.6#
70 7.0 6.9 10.3



#38
Carbon Tetrachloride
Concen: 19.261 ug/l
RT: 7.11 min Scan# 577
Delta R.T. -0.02 min
Lab File: VD063598.D
Acq: 15 Aug 2019 4:00

Tgt Ion: 117 Resp: 360580
Ion Ratio Lower Upper
117 100
119 92.0 74.2 111.2
121 26.0 23.1 34.7

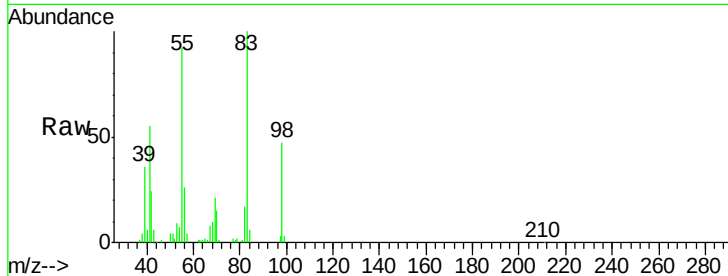




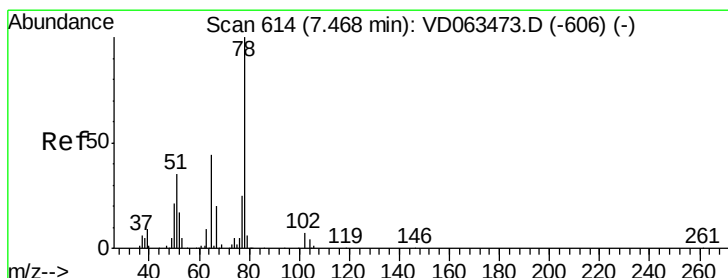
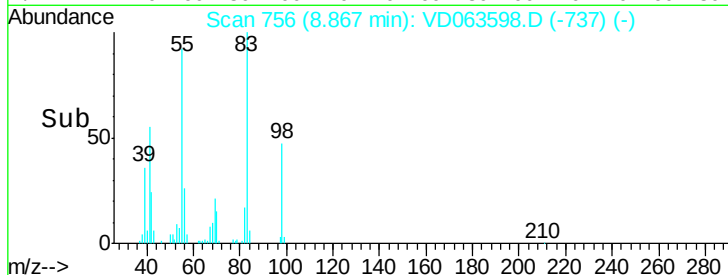
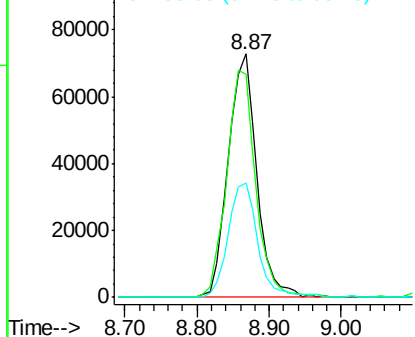
#39
Methylvlcyclohexane
Concen: 18.946 ug/l
RT: 8.87 min Scan# 756
Delta R.T. -0.01 min
Lab File: VD063598.D
Acq: 15 Aug 2019 4:00

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	83	Resp	200122
Ion	Ratio	Lower	Upper
83	100		
55	91.7	76.6	114.8
98	47.0	39.4	59.0

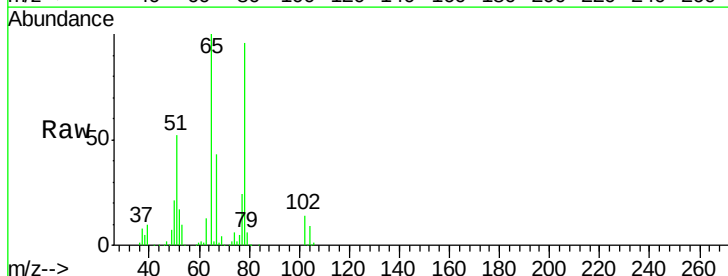


Abundance Ion 83.05 (82.75 to 83.75): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.05 (97.75 to 98.75): VDC

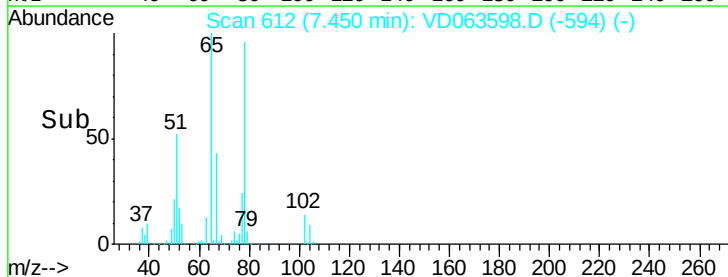
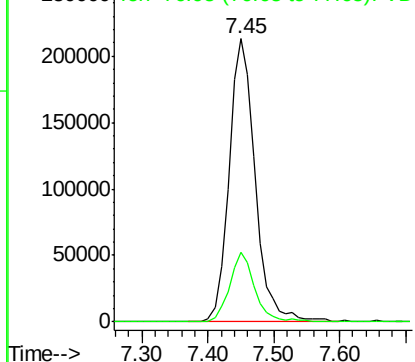


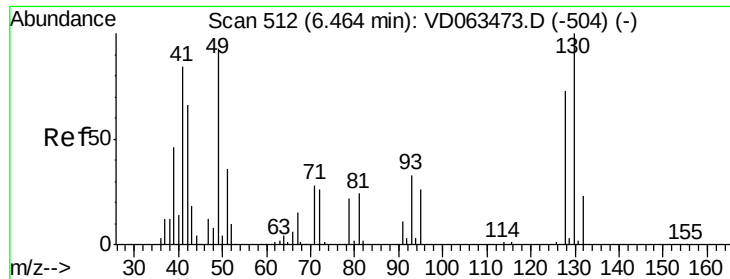
#40
Benzene
Concen: 21.585 ug/l
RT: 7.45 min Scan# 612
Delta R.T. -0.02 min
Lab File: VD063598.D
Acq: 15 Aug 2019 4:00

Tgt Ion	78	Resp	590034
Ion	Ratio	Lower	Upper
78	100		
77	24.6	20.1	30.1



Abundance Ion 77.95 (77.65 to 78.65): VDC
Ion 76.95 (76.65 to 77.65): VDC

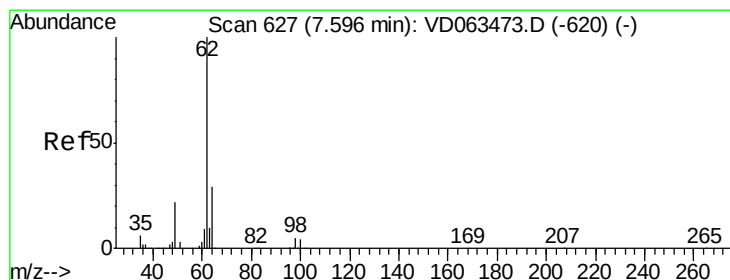
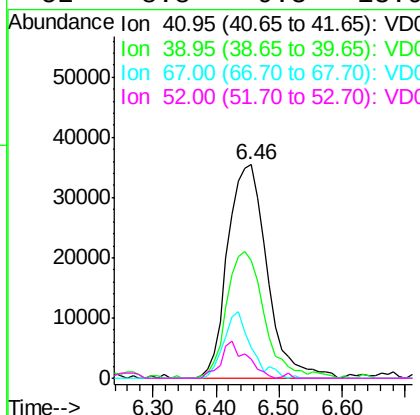
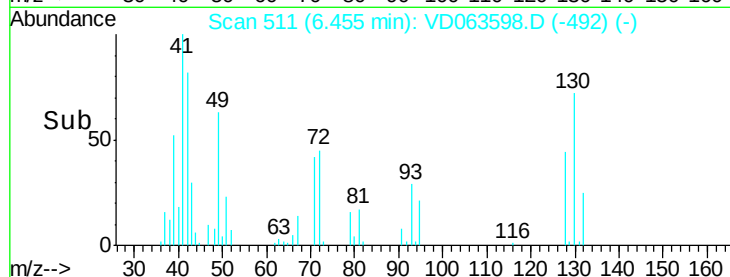
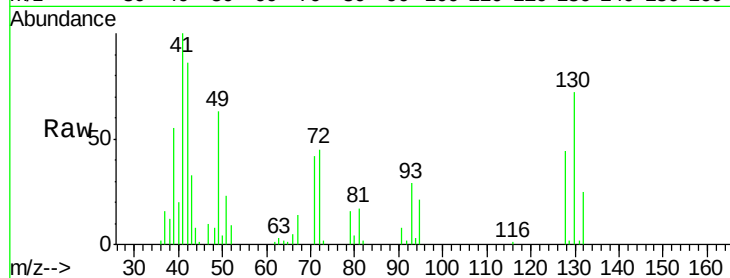




#41
Methacrylonitrile
Concen: 23.459 ug/l
RT: 6.46 min Scan# 511
Delta R.T. -0.01 min
Lab File: VD063598.D
Acq: 15 Aug 2019 4:00

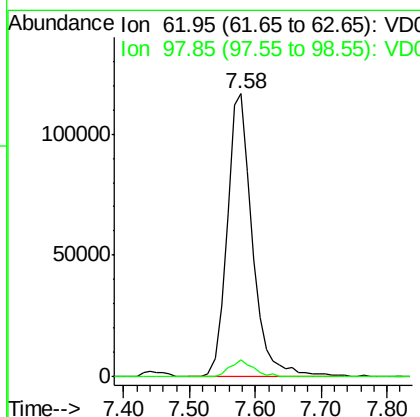
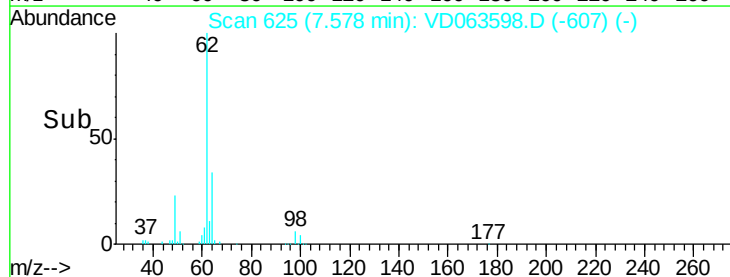
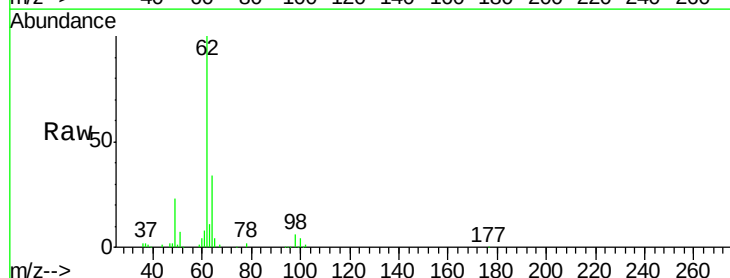
Instrument :
MSVOA_D
ClientSampleId :

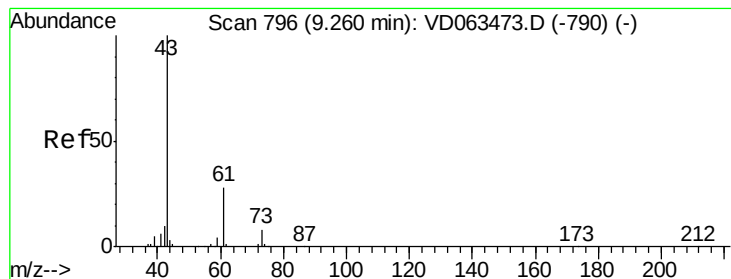
Tot Ion: 41 Resp: 153746
Ion Ratio Lower Upper
41 100
39 55.2 44.6 66.8
67 14.3 14.4 21.6#
52 8.8 9.3 13.9#



#42
1,2-Dichloroethane
Concen: 22.733 ug/l
RT: 7.58 min Scan# 625
Delta R.T. -0.02 min
Lab File: VD063598.D
Acq: 15 Aug 2019 4:00

Tgt Ion: 62 Resp: 312467
Ion Ratio Lower Upper
62 100
98 5.9 0.0 10.4





#43

Isopropyl Acetate

Concen: 21.454 ug/l

RT: 9.24 min Scan# 794

Delta R.T. -0.02 min

Lab File: VD063598.D

Acq: 15 Aug 2019 4:00

Instrument :

MSVOA_D

ClientSampleId :

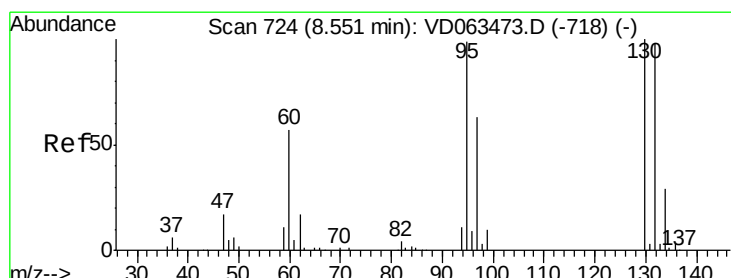
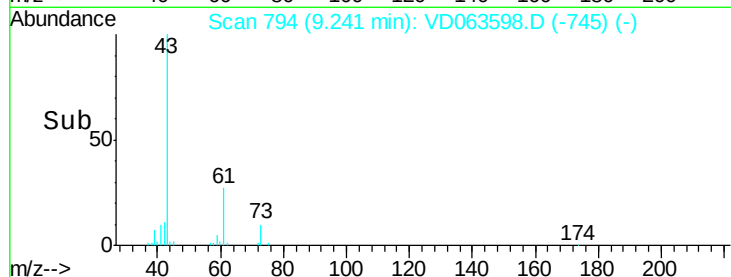
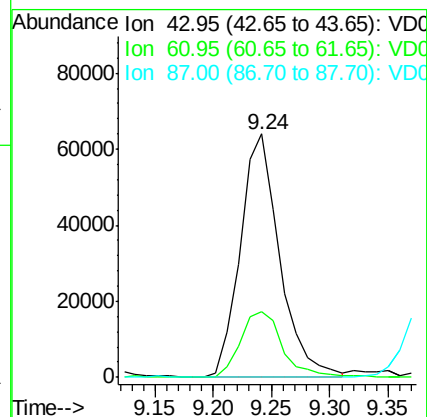
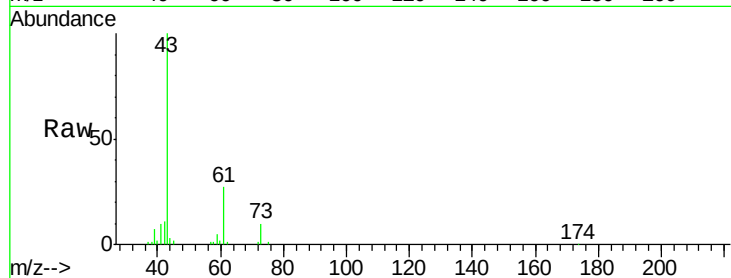
Tot Ion: 43 Resp: 149560

Ion Ratio Lower Upper

43 100

61 26.9 22.2 33.2

87 0.0 0.2 0.4#



#44

Trichloroethene

Concen: 19.331 ug/l

RT: 8.53 min Scan# 722

Delta R.T. -0.02 min

Lab File: VD063598.D

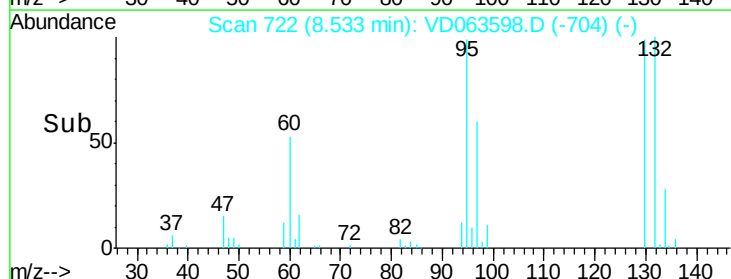
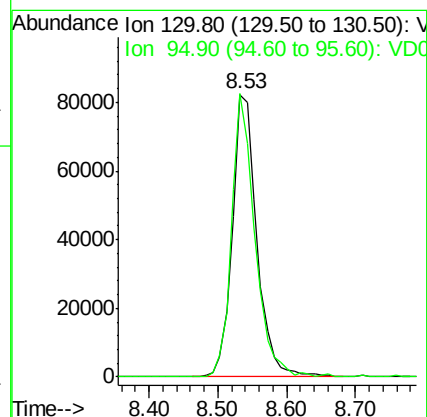
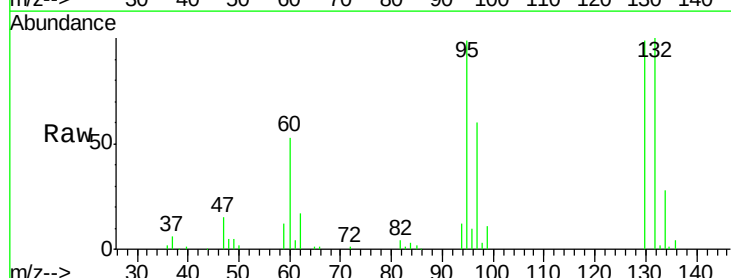
Acq: 15 Aug 2019 4:00

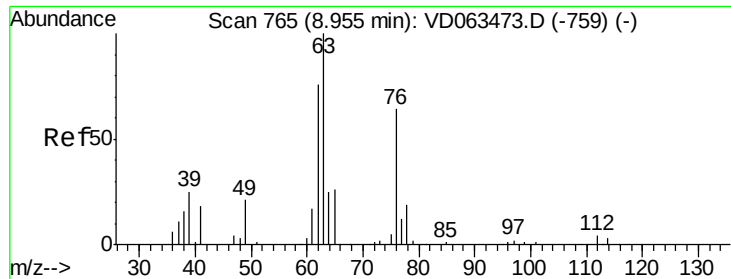
Tgt Ion:130 Resp: 201975

Ion Ratio Lower Upper

130 100

95 100.3 0.0 198.0

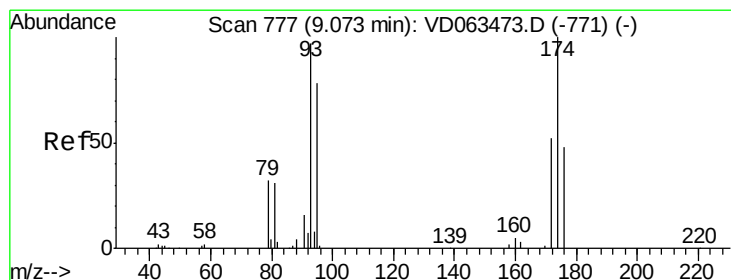
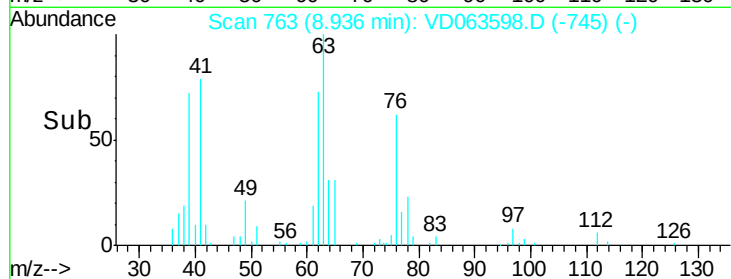
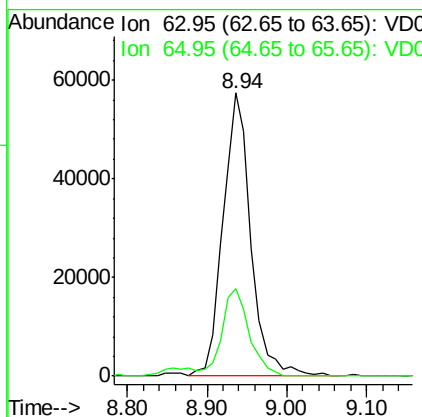
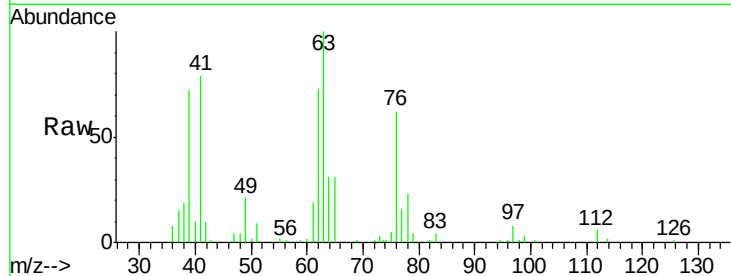




#45
1,2-Dichloropropane
Concen: 22.159 ug/l
RT: 8.94 min Scan# 763
Delta R.T. -0.02 min
Lab File: VD063598.D
Acq: 15 Aug 2019 4:00

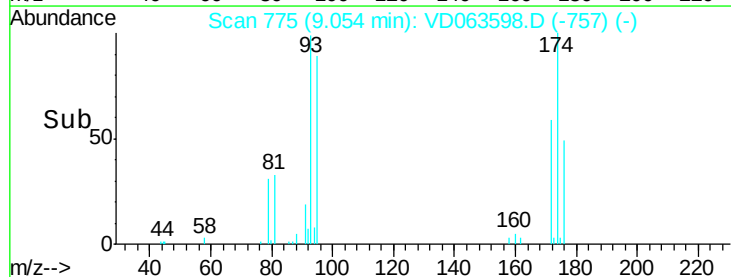
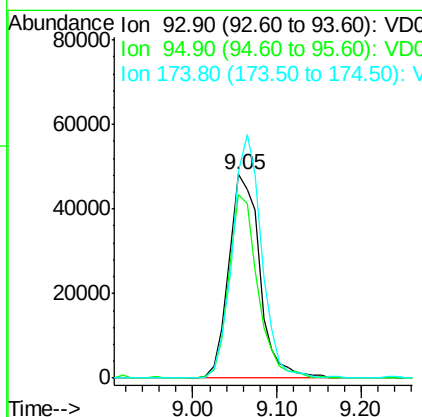
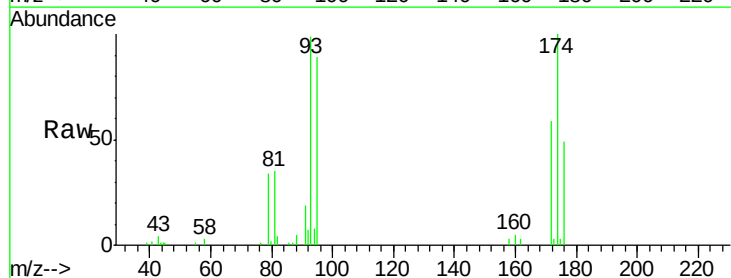
Instrument :
MSVOA_D
ClientSampleId :

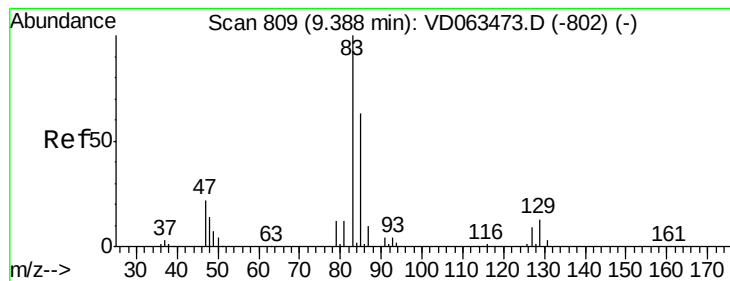
Tot Ion: 63 Resp: 141057
Ion Ratio Lower Upper
63 100
65 30.8 22.5 33.7



#46
Dibromomethane
Concen: 22.714 ug/l
RT: 9.05 min Scan# 775
Delta R.T. -0.02 min
Lab File: VD063598.D
Acq: 15 Aug 2019 4:00

Tgt Ion: 93 Resp: 123480
Ion Ratio Lower Upper
93 100
95 90.1 64.2 96.2
174 101.3 82.1 123.1





#47

Bromodichloromethane

Concen: 22.767 ug/l

RT: 9.37 min Scan# 807

Delta R.T. -0.02 min

Lab File: VD063598.D

Acq: 15 Aug 2019 4:00

Instrument :

MSVOA_D

ClientSampleId :

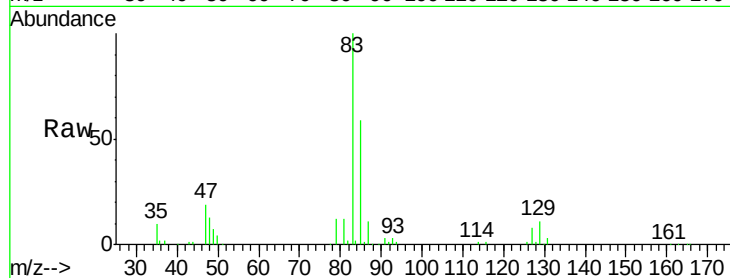
Tot Ion: 83 Resp: 317482

Ion Ratio Lower Upper

83 100

85 59.0 50.1 75.1

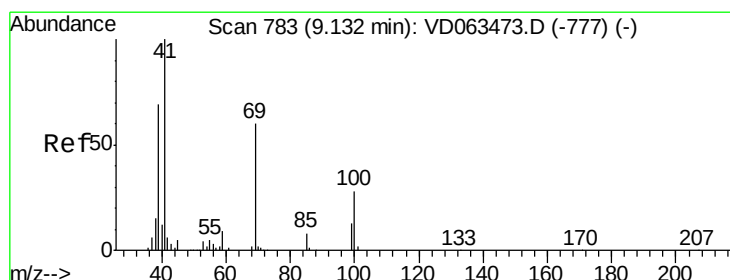
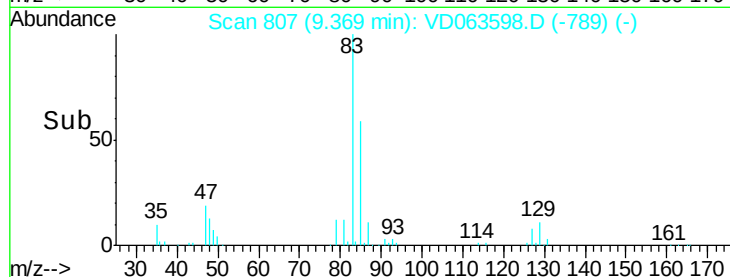
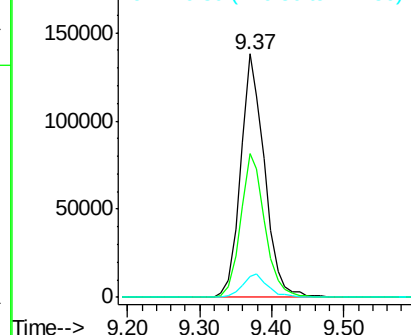
127 8.4 7.6 11.4



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: 24.691 ug/l

RT: 9.12 min Scan# 782

Delta R.T. -0.01 min

Lab File: VD063598.D

Acq: 15 Aug 2019 4:00

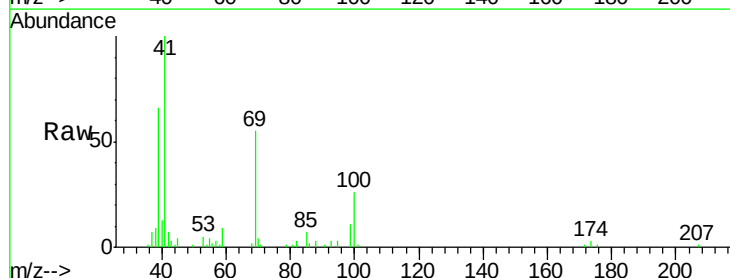
Tgt Ion: 41 Resp: 116730

Ion Ratio Lower Upper

41 100

69 55.2 47.6 71.4

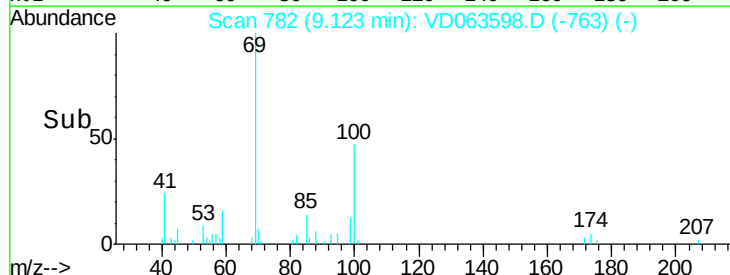
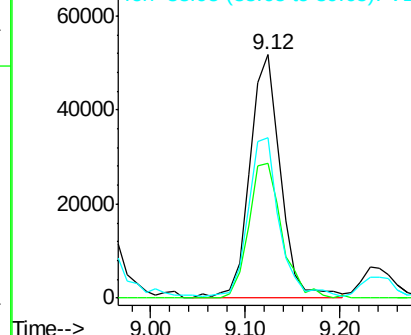
39 66.0 55.7 83.5

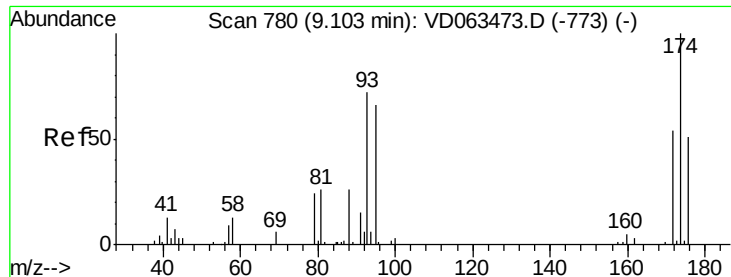


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 38.95 (38.65 to 39.65): VDC

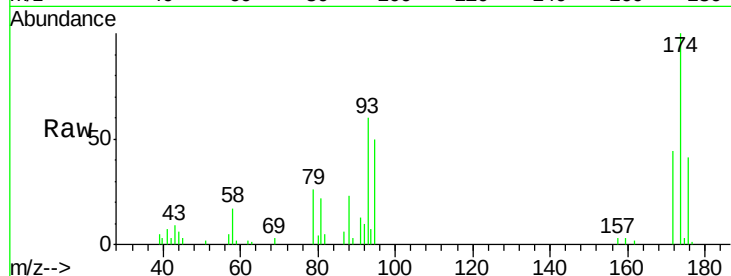




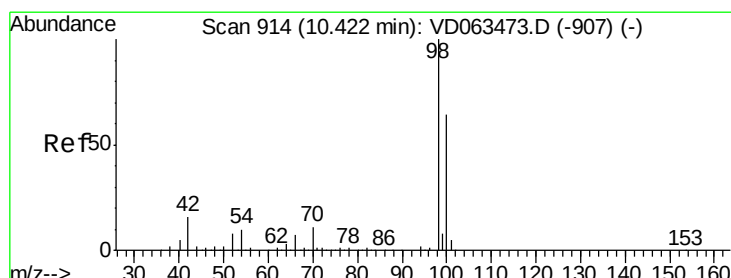
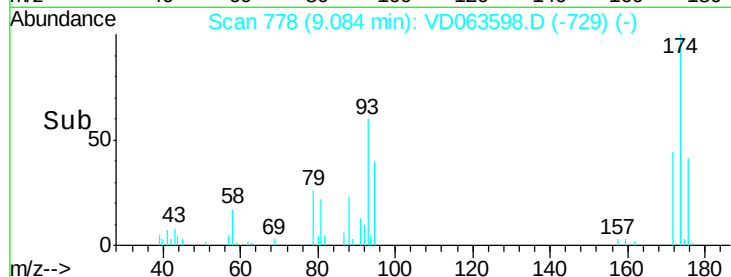
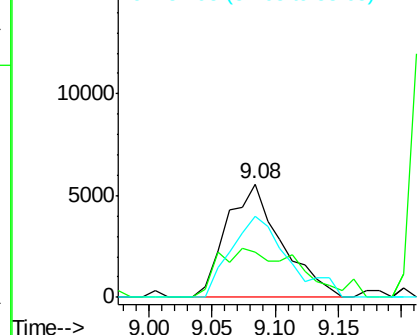
#49
1,4-Dioxane
Concen: 413.755 ug/l
RT: 9.08 min Scan# 778
Delta R.T. -0.02 min
Lab File: VD063598.D
Acq: 15 Aug 2019 4:00

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 88 Resp: 16840
Ion Ratio Lower Upper
88 100
43 39.6 22.9 34.3#
58 71.1 40.1 60.1#

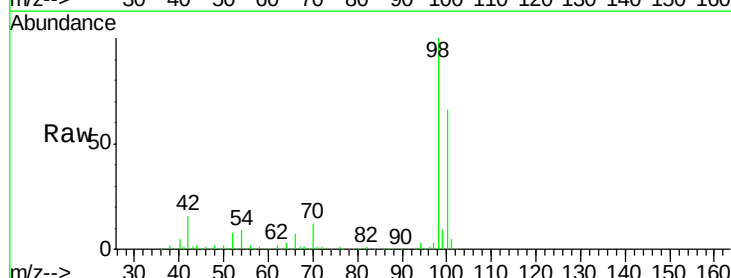


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

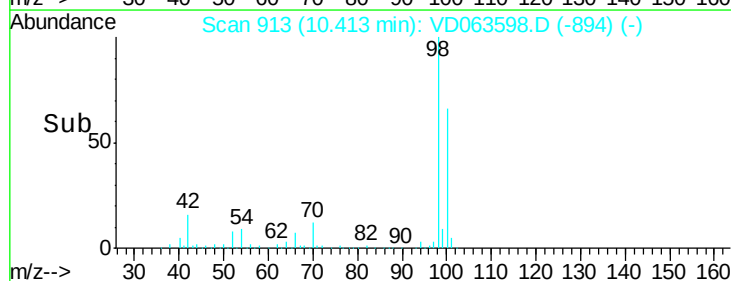
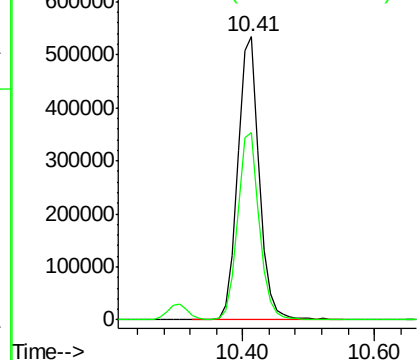


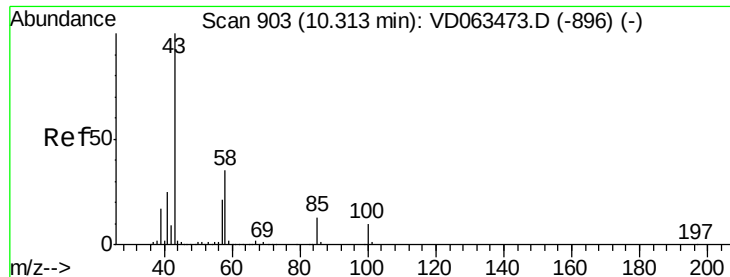
#50
Toluene-d8
Concen: 46.972 ug/l
RT: 10.41 min Scan# 913
Delta R.T. -0.01 min
Lab File: VD063598.D
Acq: 15 Aug 2019 4:00

Tgt Ion: 98 Resp: 1222102
Ion Ratio Lower Upper
98 100
100 66.1 51.7 77.5



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: 120.065 ug/l

RT: 10.29 min Scan# 901

Delta R.T. -0.02 min

Lab File: VD063598.D

Acq: 15 Aug 2019 4:00

Instrument :

MSVOA_D

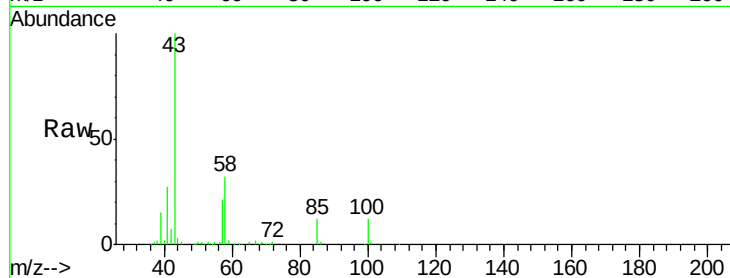
ClientSampleId :

Tot Ion: 43 Resp: 572734

Ion Ratio Lower Upper

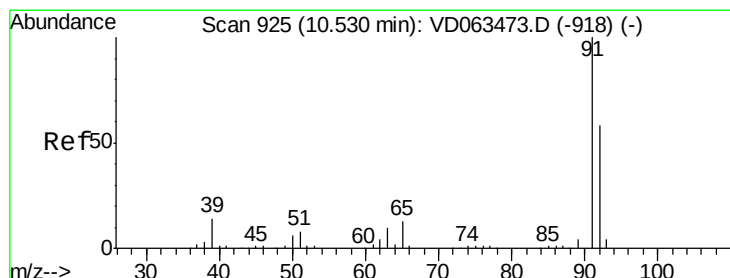
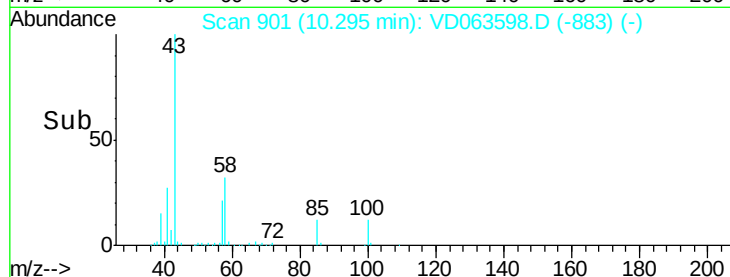
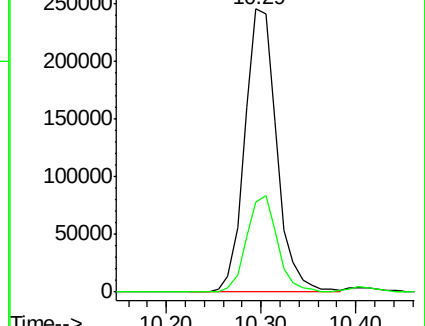
43 100

58 31.9 28.0 42.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 21.416 ug/l

RT: 10.50 min Scan# 922

Delta R.T. -0.03 min

Lab File: VD063598.D

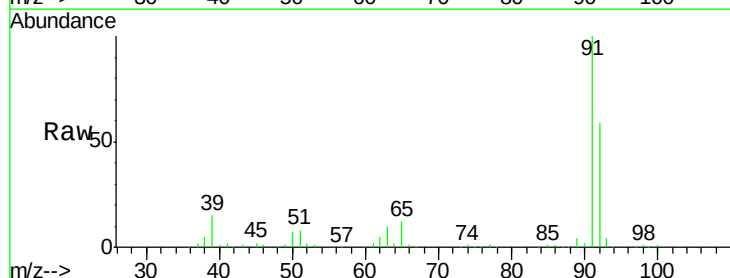
Acq: 15 Aug 2019 4:00

Tgt Ion: 92 Resp: 377058

Ion Ratio Lower Upper

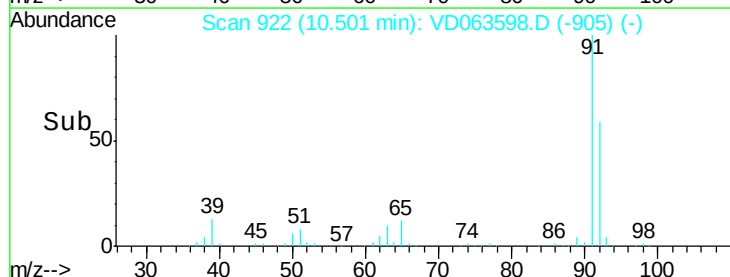
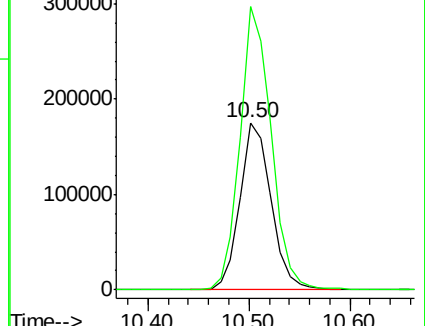
92 100

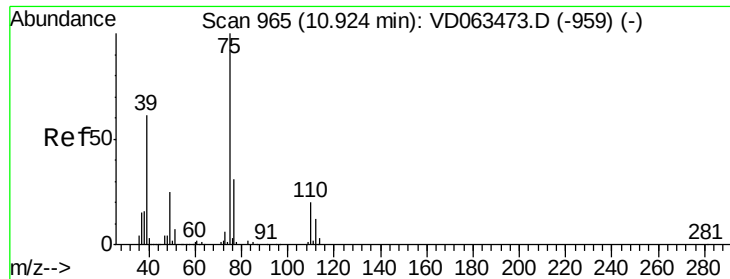
91 169.3 137.9 206.9



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

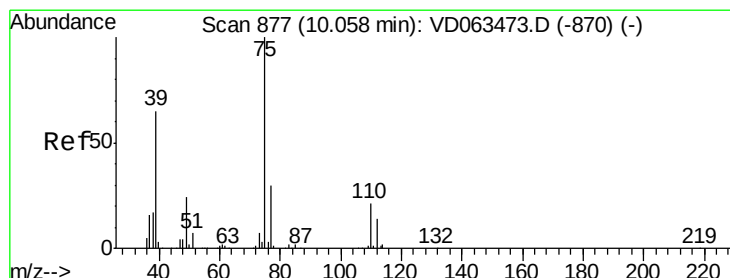
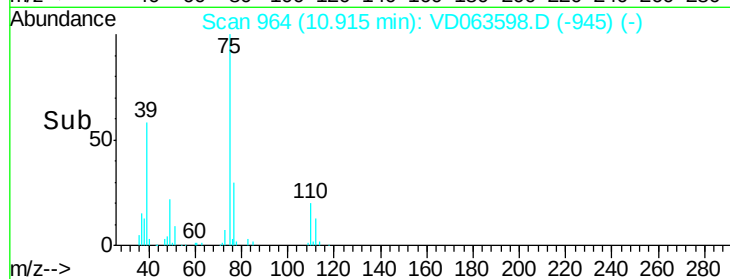
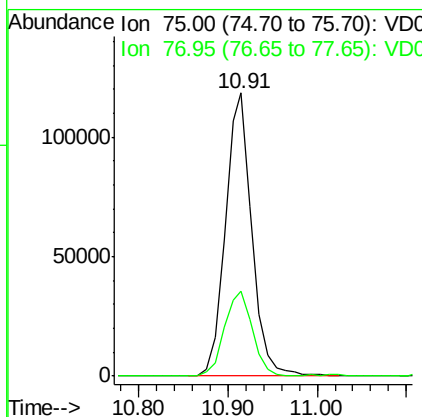
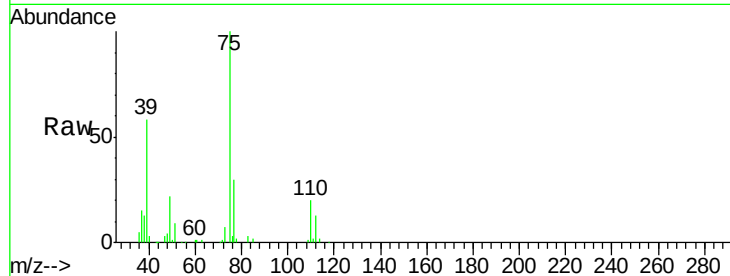




#53
 t-1,3-Dichloropropene
 Concen: 21.569 ug/l
 RT: 10.91 min Scan# 964
 Delta R.T. -0.01 min
 Lab File: VD063598.D
 Acq: 15 Aug 2019 4:00

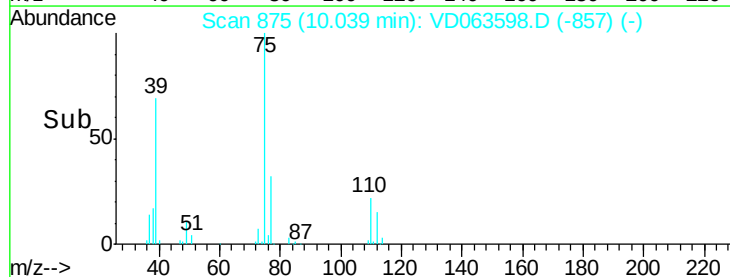
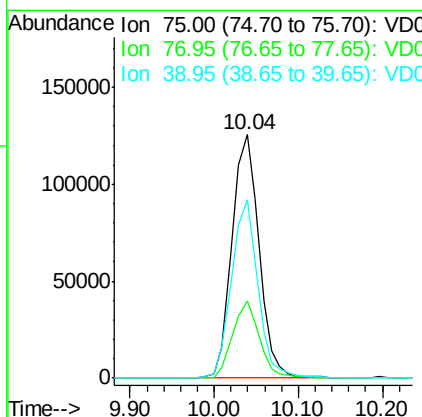
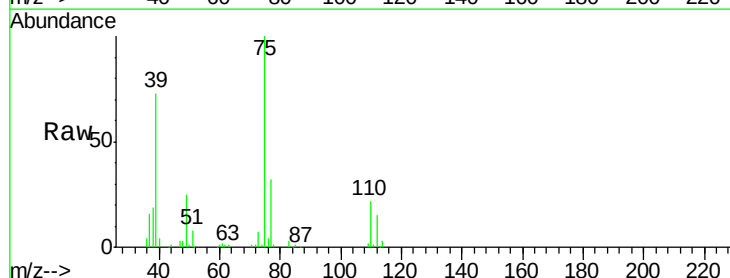
Instrument :
 MSVOA_D
 ClientSampleId :

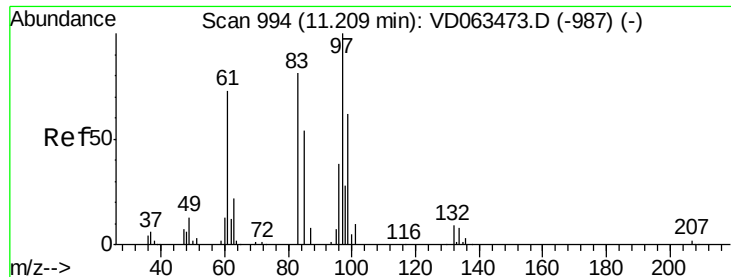
Tot Ion: 75 Resp: 245463
 Ion Ratio Lower Upper
 75 100
 77 30.0 24.5 36.7



#54
 cis-1,3-Dichloropropene
 Concen: 21.960 ug/l
 RT: 10.04 min Scan# 875
 Delta R.T. -0.02 min
 Lab File: VD063598.D
 Acq: 15 Aug 2019 4:00

Tgt Ion: 75 Resp: 281792
 Ion Ratio Lower Upper
 75 100
 77 31.5 23.7 35.5
 39 73.3 52.2 78.4

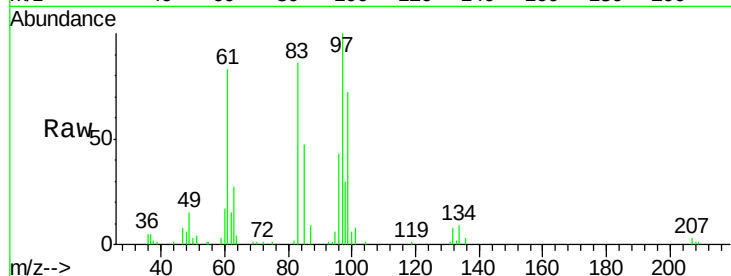




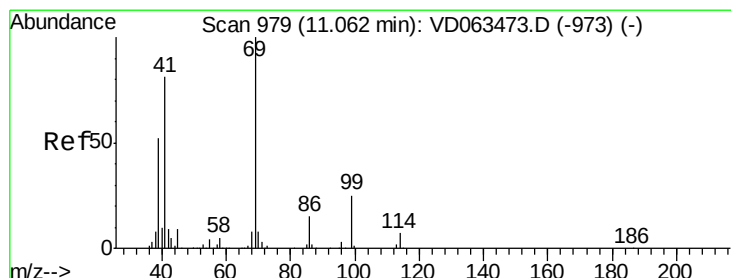
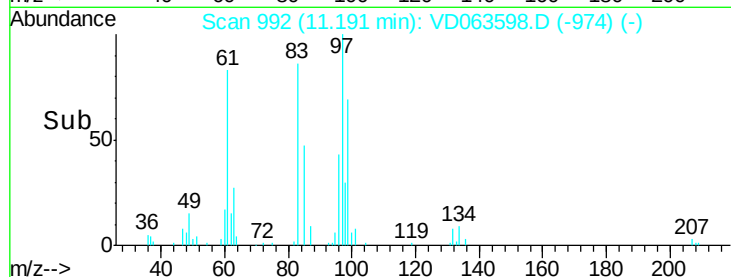
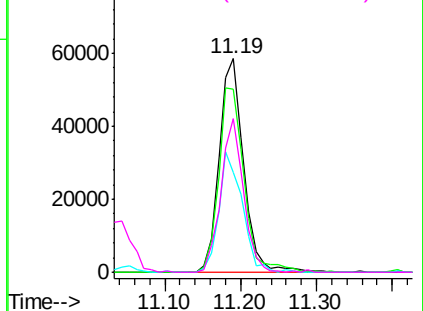
#55
 1,1,2-Trichloroethane
 Concen: 22.080 ug/l
 RT: 11.19 min Scan# 992
 Delta R.T. -0.02 min
 Lab File: VD063598.D
 Acq: 15 Aug 2019 4:00

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:	97	Resp:	131321
Ion	Ratio	Lower	Upper
97	100		
83	85.9	64.7	97.1
85	47.0	42.9	64.3
99	71.9	49.7	74.5

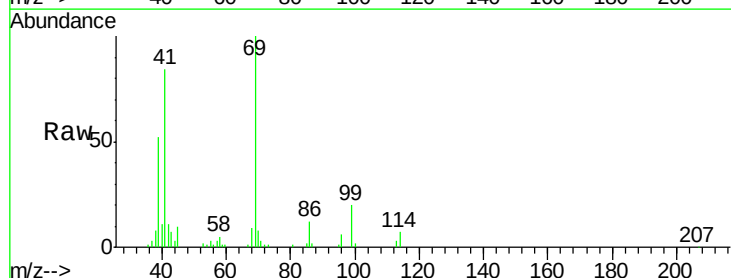


Abundance Ion 96.85 (96.55 to 97.55): VDC
 Ion 82.95 (82.65 to 83.65): VDC
 Ion 84.95 (84.65 to 85.65): VDC
 Ion 98.85 (98.55 to 99.55): VDC

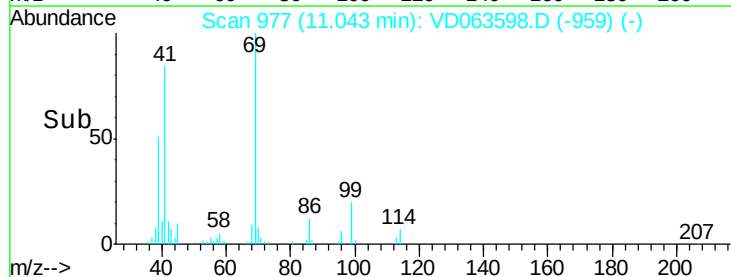
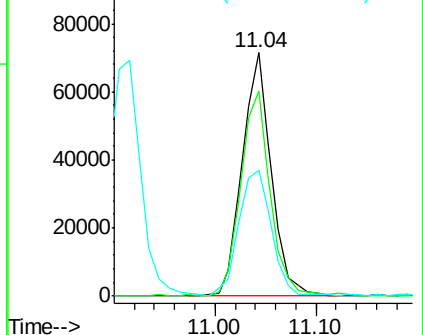


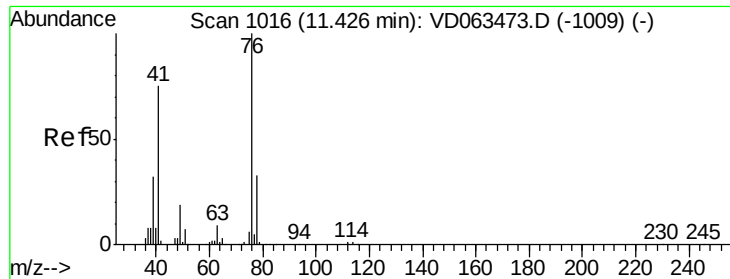
#56
 Ethyl methacrylate
 Concen: 22.111 ug/l
 RT: 11.04 min Scan# 977
 Delta R.T. -0.02 min
 Lab File: VD063598.D
 Acq: 15 Aug 2019 4:00

Tgt Ion:	69	Resp:	142736
Ion	Ratio	Lower	Upper
69	100		
41	84.0	64.8	97.2
39	51.9	42.4	63.6



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

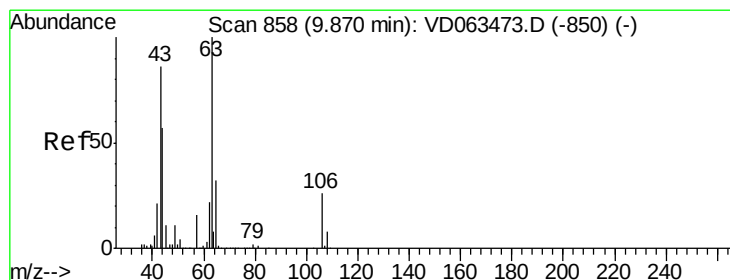
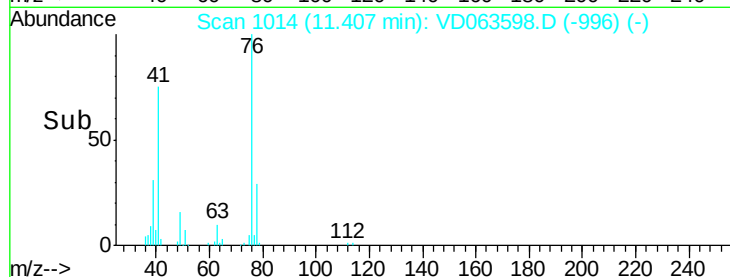
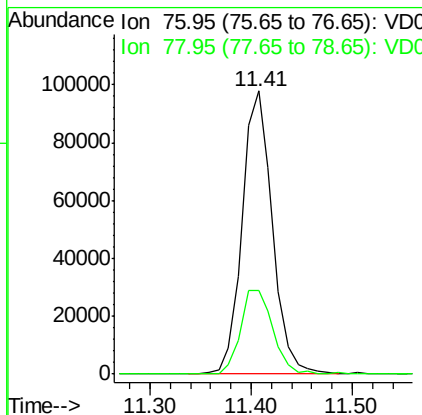
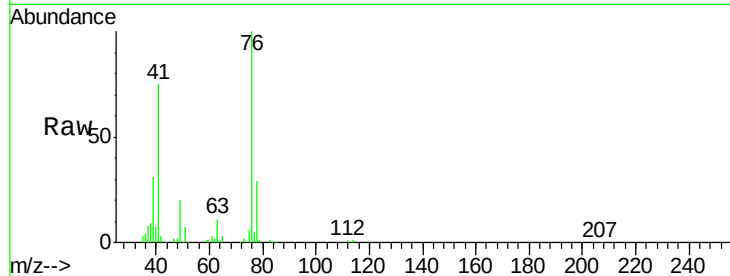




#57
 1,3-Dichloropropane
 Concen: 22.648 ug/l
 RT: 11.41 min Scan# 1014
 Delta R.T. -0.02 min
 Lab File: VD063598.D
 Acq: 15 Aug 2019 4:00

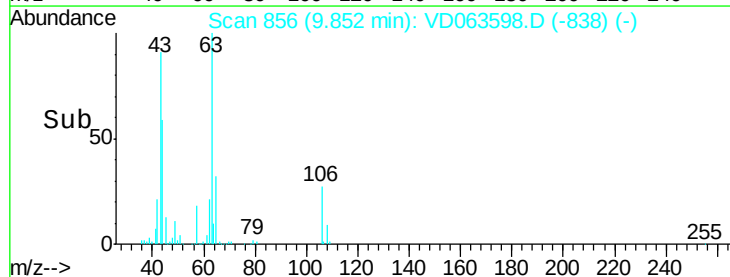
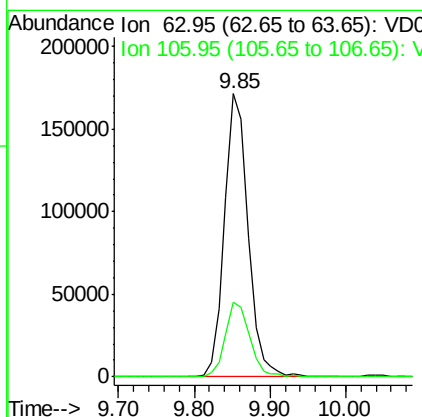
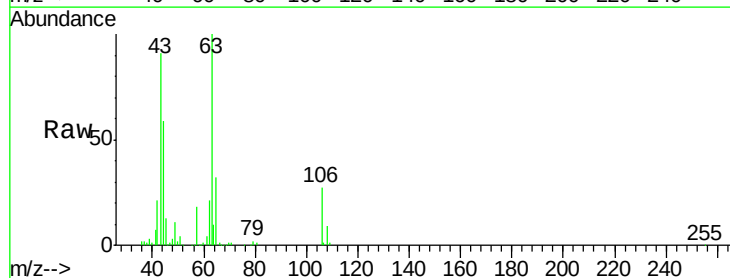
Instrument :
 MSVOA_D
 ClientSampleId :

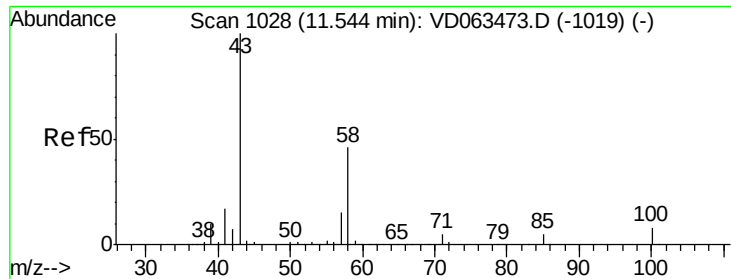
Tot Ion: 76 Resp: 203608
 Ion Ratio Lower Upper
 76 100
 78 29.5 26.3 39.5



#58
 2-Chloroethyl Vinyl ether
 Concen: 108.777 ug/l
 RT: 9.85 min Scan# 856
 Delta R.T. -0.02 min
 Lab File: VD063598.D
 Acq: 15 Aug 2019 4:00

Tgt Ion: 63 Resp: 370713
 Ion Ratio Lower Upper
 63 100
 106 26.6 20.8 31.2

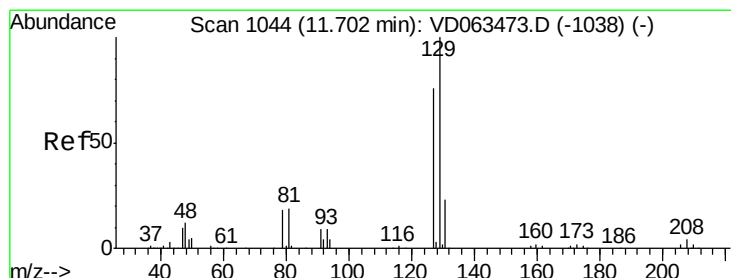
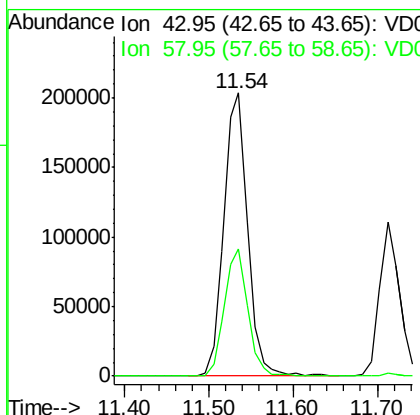
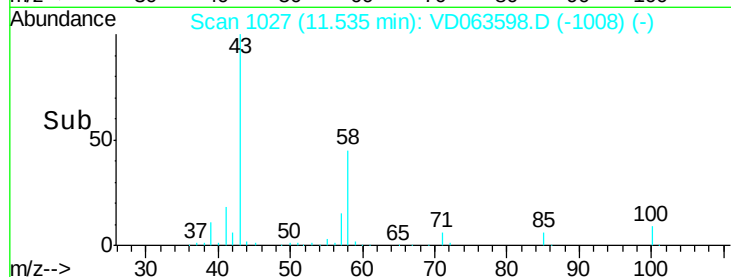
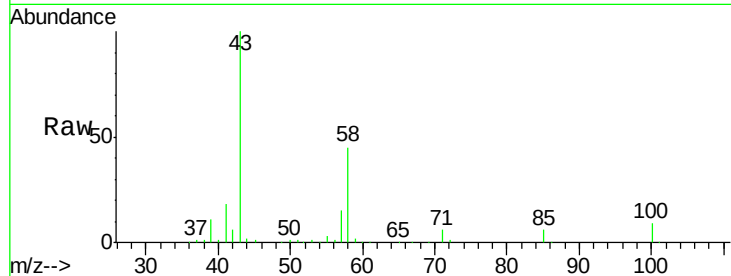




#59
2-Hexanone
Concen: 114.902 ug/l
RT: 11.54 min Scan# 1027
Delta R.T. -0.01 min
Lab File: VD063598.D
Acq: 15 Aug 2019 4:00

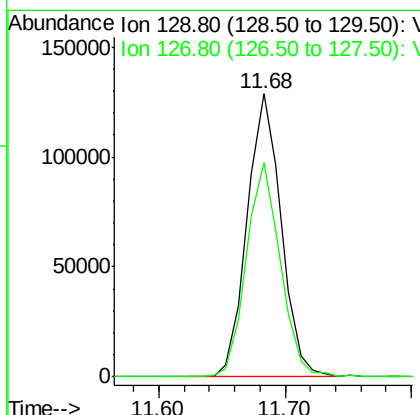
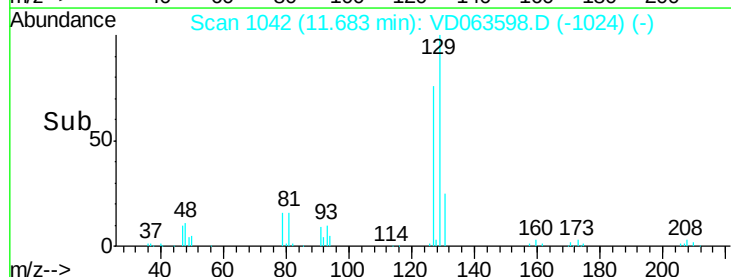
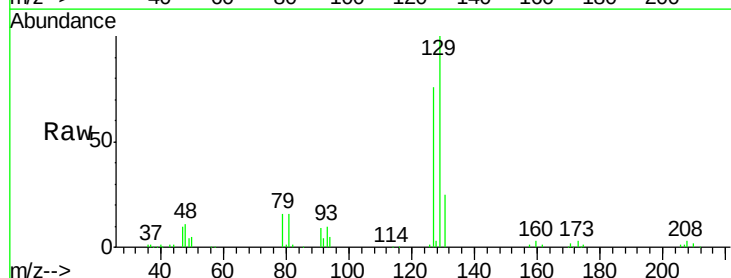
Instrument :
MSVOA_D
ClientSampled :

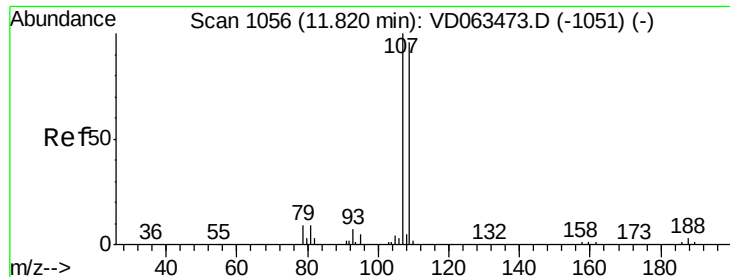
Tot Ion: 43 Resp: 398816
Ion Ratio Lower Upper
43 100
58 45.2 23.1 69.2



#60
Dibromochloromethane
Concen: 22.299 ug/l
RT: 11.68 min Scan# 1042
Delta R.T. -0.02 min
Lab File: VD063598.D
Acq: 15 Aug 2019 4:00

Tgt Ion: 129 Resp: 241328
Ion Ratio Lower Upper
129 100
127 75.6 37.8 113.4

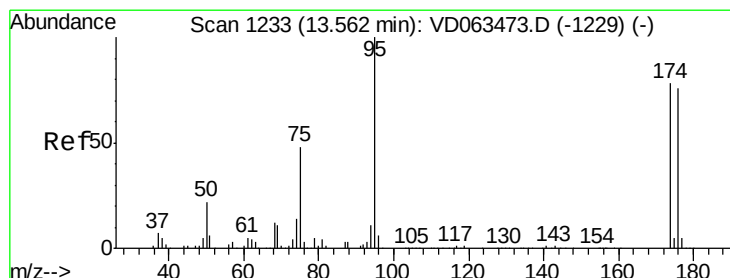
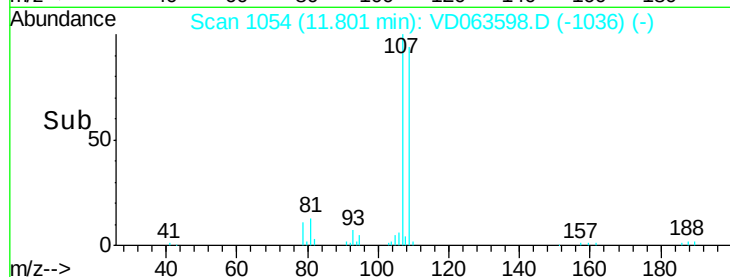
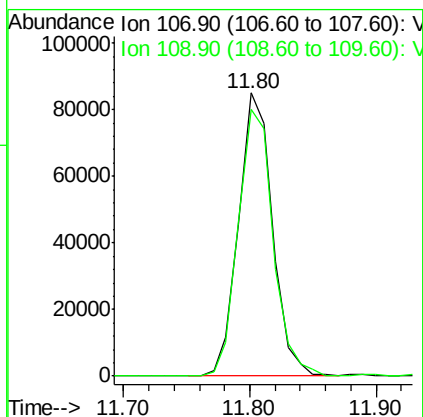
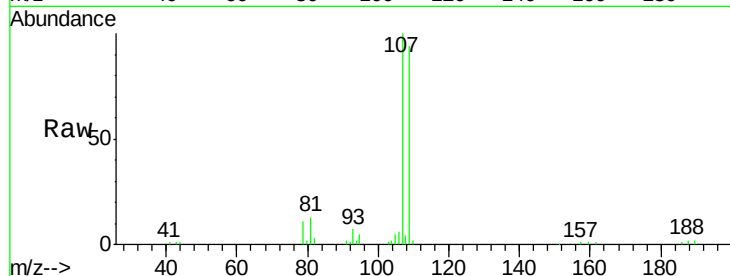




#61
 1,2-Dibromoethane
 Concen: 21.892 ug/l
 RT: 11.80 min Scan# 1054
 Delta R.T. -0.02 min
 Lab File: VD063598.D
 Acq: 15 Aug 2019 4:00

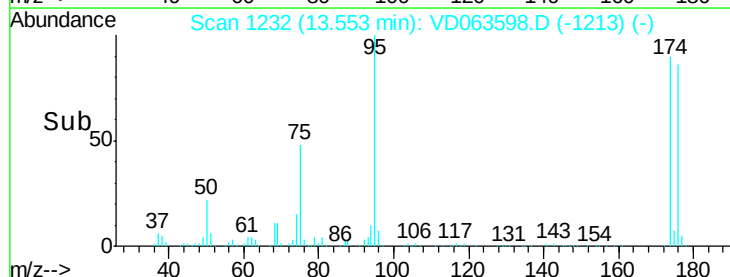
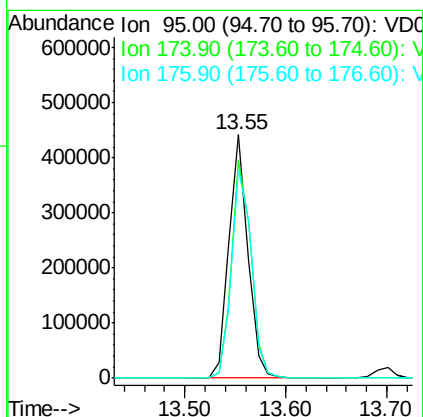
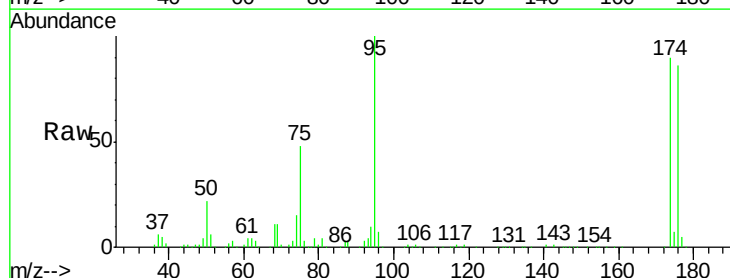
Instrument :
 MSVOA_D
 ClientSampleId :

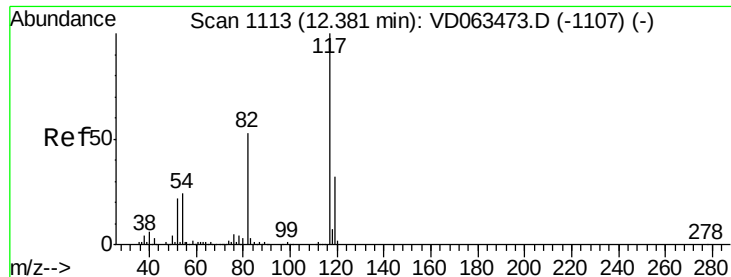
Tot Ion: 107 Resp: 157624
 Ion Ratio Lower Upper
 107 100
 109 94.1 76.8 115.2



#62
 4-Bromofluorobenzene
 Concen: 48.496 ug/l
 RT: 13.55 min Scan# 1232
 Delta R.T. -0.01 min
 Lab File: VD063598.D
 Acq: 15 Aug 2019 4:00

Tgt Ion: 95 Resp: 571884
 Ion Ratio Lower Upper
 95 100
 174 89.8 0.0 155.4
 176 86.1 0.0 152.4

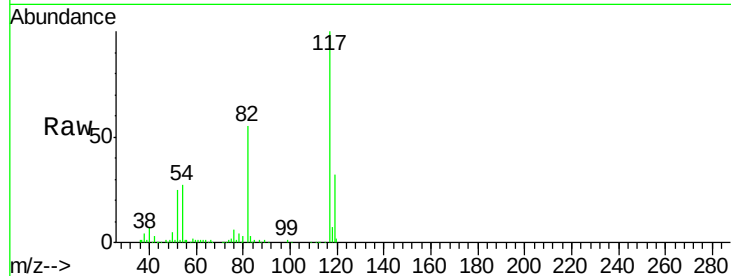




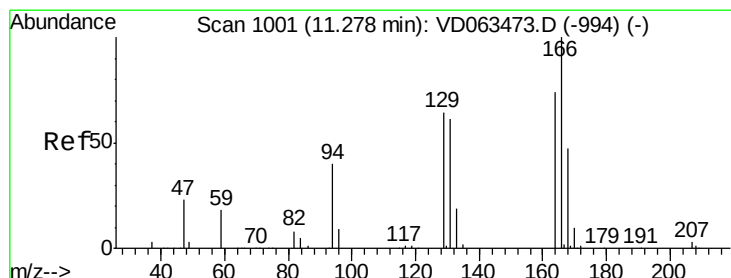
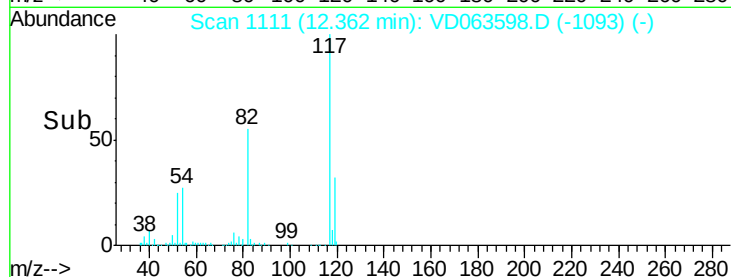
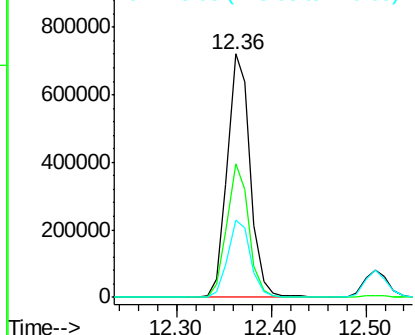
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. -0.02 min
Lab File: VD063598.D
Acq: 15 Aug 2019 4:00

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 1207259
Ion Ratio Lower Upper
117 100
82 55.1 42.0 63.0
119 31.6 25.4 38.0

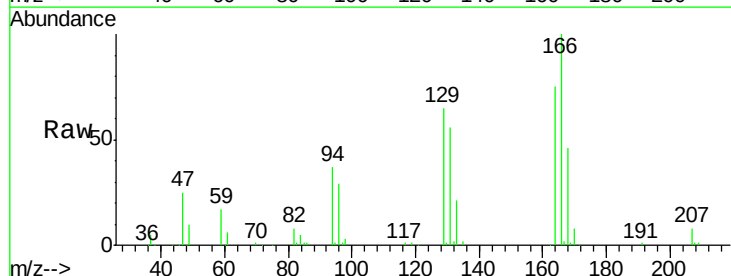


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

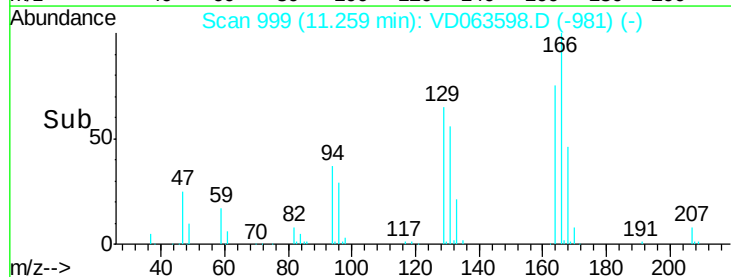
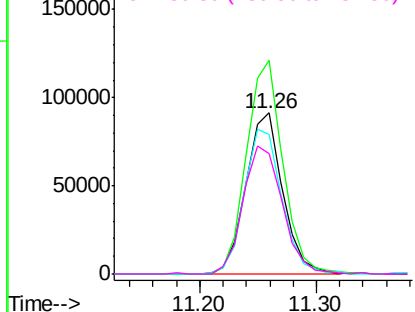


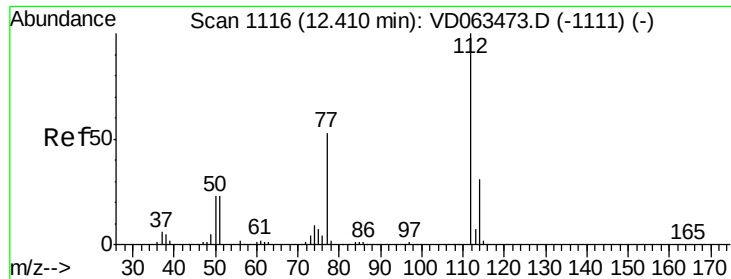
#64
Tetrachloroethene
Concen: 21.379 ug/l
RT: 11.26 min Scan# 999
Delta R.T. -0.02 min
Lab File: VD063598.D
Acq: 15 Aug 2019 4:00

Tgt Ion:164 Resp: 199251
Ion Ratio Lower Upper
164 100
166 132.9 108.6 163.0
129 86.8 69.0 103.6
131 75.1 66.6 99.8



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

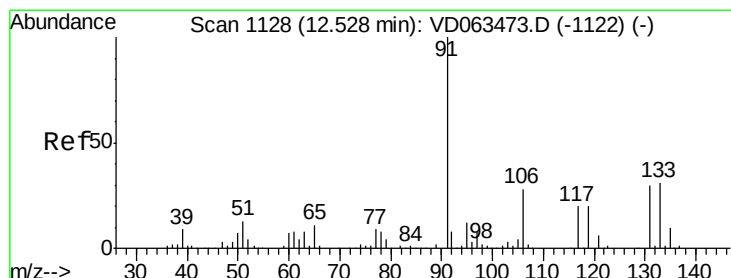
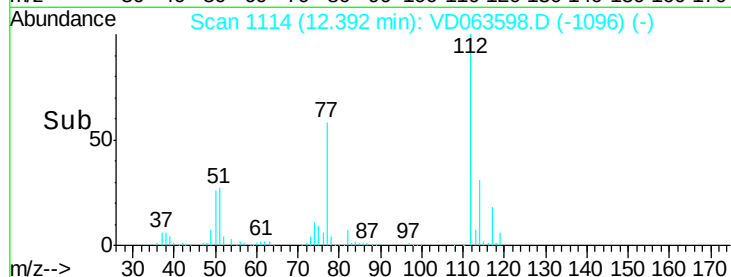
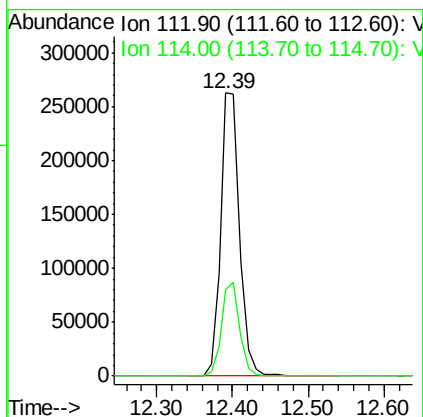
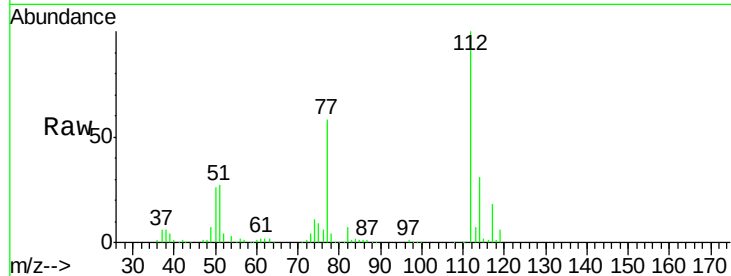




#65
Chlorobenzene
Concen: 20.238 ug/l
RT: 12.39 min Scan# 1114
Delta R.T. -0.02 min
Lab File: VD063598.D
Acq: 15 Aug 2019 4:00

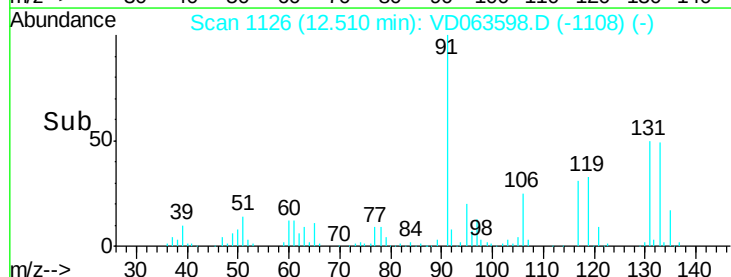
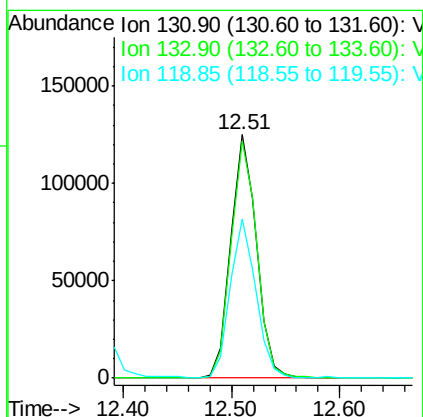
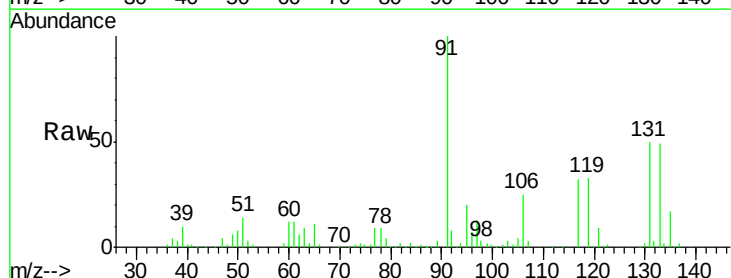
Instrument :
MSVOA_D
ClientSampleId :

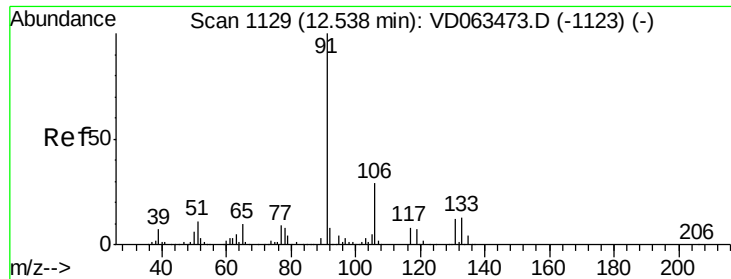
Tot Ion:112 Resp: 457931
Ion Ratio Lower Upper
112 100
114 30.7 25.1 37.7



#66
1,1,1,2-Tetrachloroethane
Concen: 20.793 ug/l
RT: 12.51 min Scan# 1126
Delta R.T. -0.02 min
Lab File: VD063598.D
Acq: 15 Aug 2019 4:00

Tgt Ion:131 Resp: 207059
Ion Ratio Lower Upper
131 100
133 97.4 51.1 153.3
119 65.5 33.1 99.3

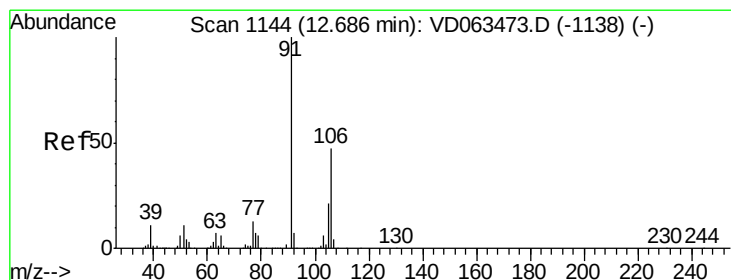
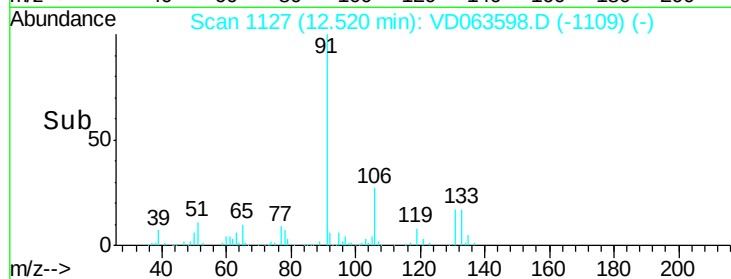
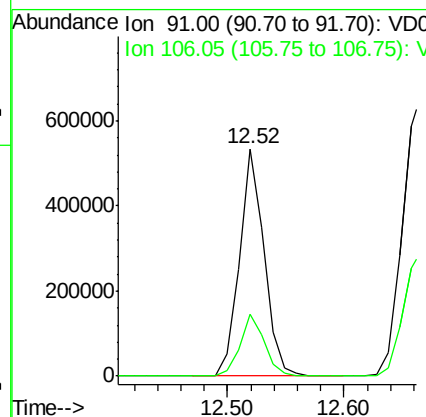
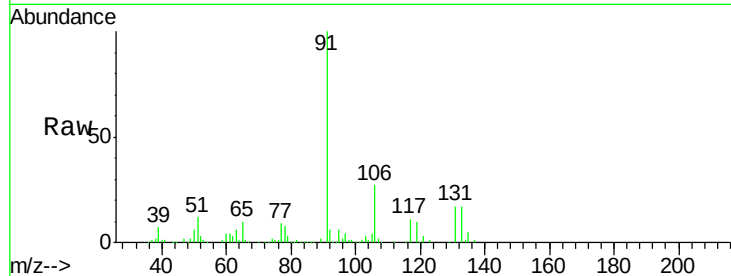




#67
Ethyl Benzene
Concen: 19.937 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. -0.02 min
Lab File: VD063598.D
Acq: 15 Aug 2019 4:00

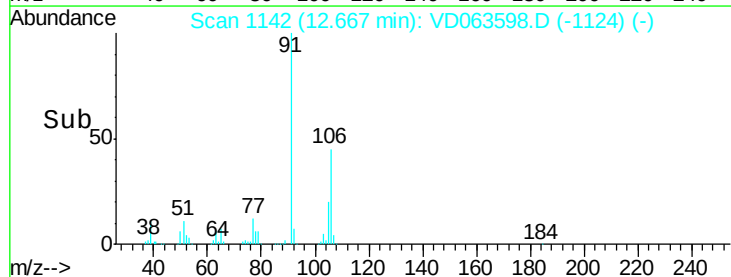
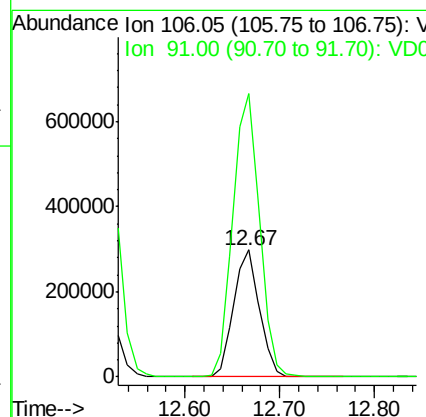
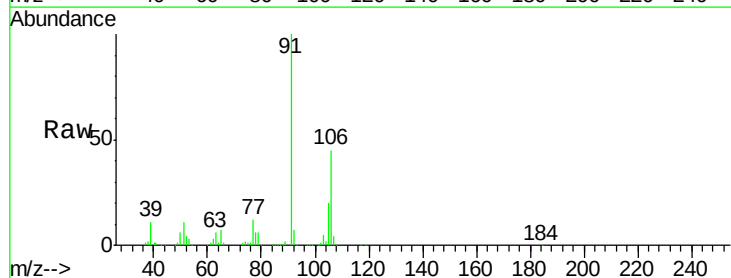
Instrument :
MSVOA_D
ClientSampled :

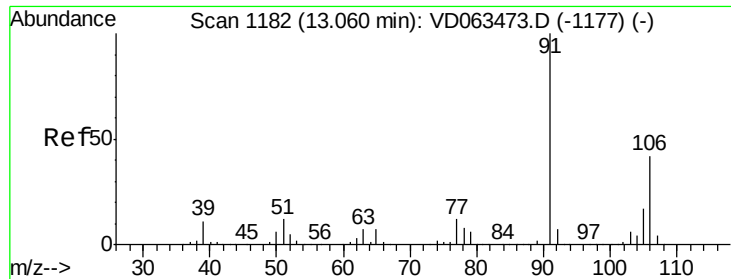
Tot Ion: 91 Resp: 784370
Ion Ratio Lower Upper
91 100
106 27.4 23.1 34.7



#68
m/p-Xylenes
Concen: 40.694 ug/l
RT: 12.67 min Scan# 1142
Delta R.T. -0.02 min
Lab File: VD063598.D
Acq: 15 Aug 2019 4:00

Tgt Ion: 106 Resp: 562481
Ion Ratio Lower Upper
106 100
91 223.5 171.8 257.8

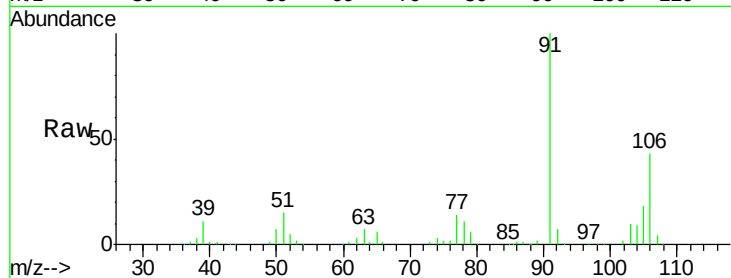




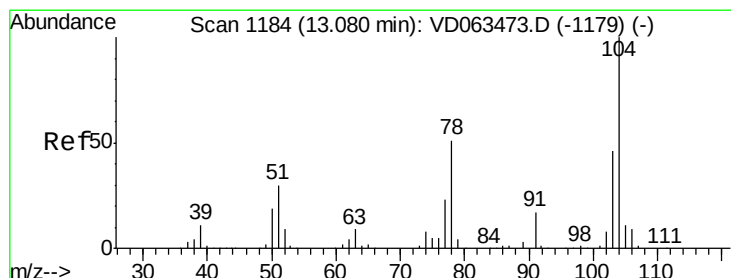
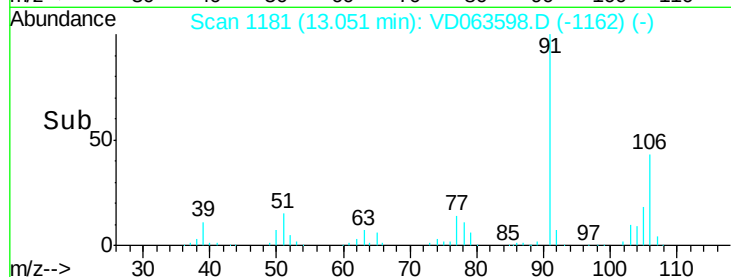
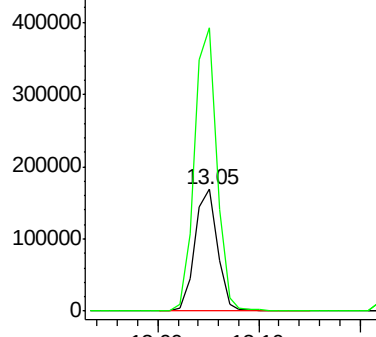
#69
o-Xylene
Concen: 19.975 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. -0.01 min
Lab File: VD063598.D
Acq: 15 Aug 2019 4:00

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:106 Resp: 265742
Ion Ratio Lower Upper
106 100
91 232.4 118.1 354.2

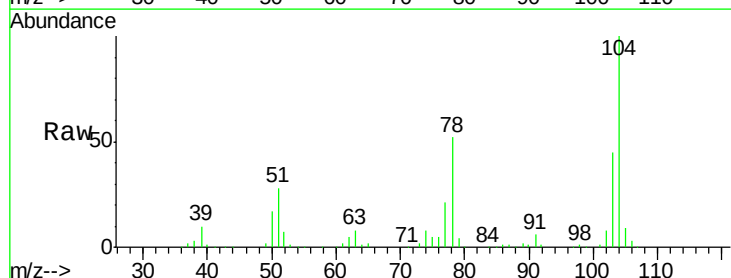


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

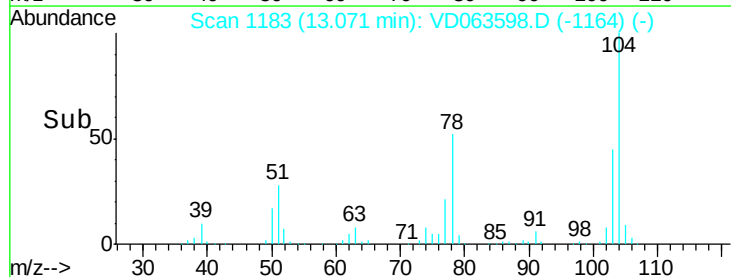
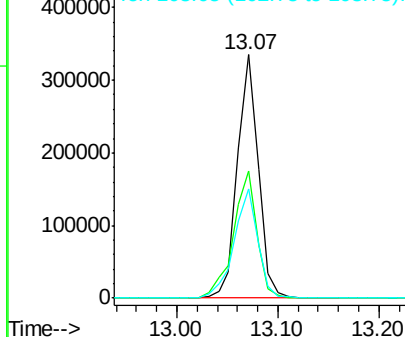


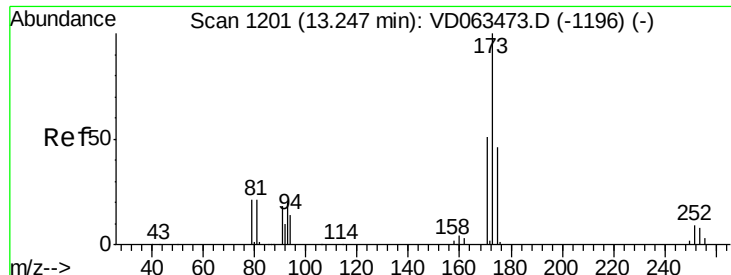
#70
Styrene
Concen: 20.292 ug/l
RT: 13.07 min Scan# 1183
Delta R.T. -0.01 min
Lab File: VD063598.D
Acq: 15 Aug 2019 4:00

Tgt Ion:104 Resp: 480185
Ion Ratio Lower Upper
104 100
78 52.1 40.8 61.2
103 44.9 36.4 54.6



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





#71

Bromoform

Concen: 21.422 ug/l

RT: 13.23 min Scan# 1199

Delta R.T. -0.02 min

Lab File: VD063598.D

Acq: 15 Aug 2019 4:00

Instrument :

MSVOA_D

ClientSampleId :

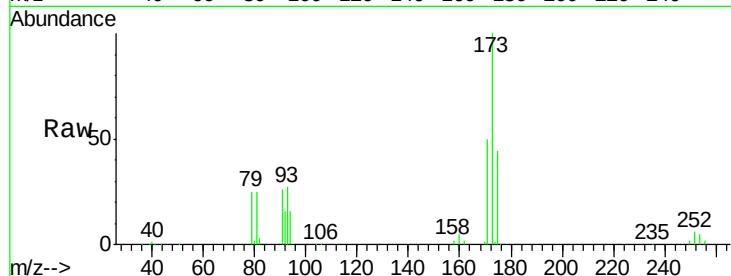
Tot Ion:173 Resp: 146273

Ion Ratio Lower Upper

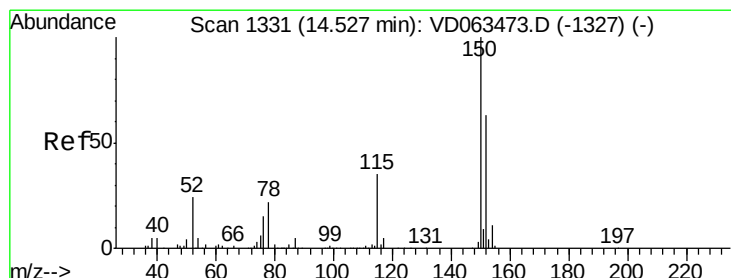
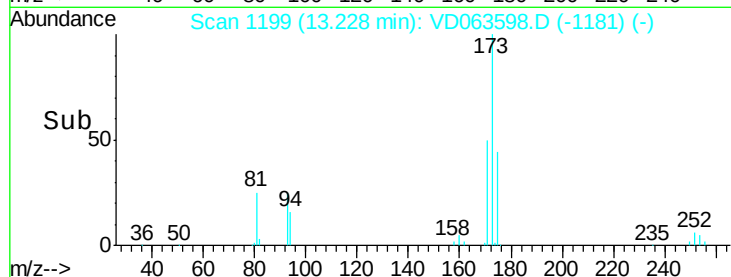
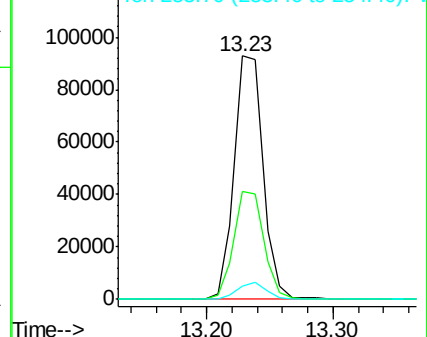
173 100

175 44.1 22.8 68.3

254 5.4 6.6 9.8#



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# 1330

Delta R.T. -0.01 min

Lab File: VD063598.D

Acq: 15 Aug 2019 4:00

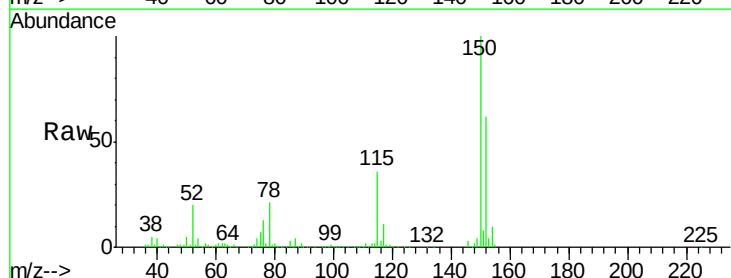
Tgt Ion:152 Resp: 638387

Ion Ratio Lower Upper

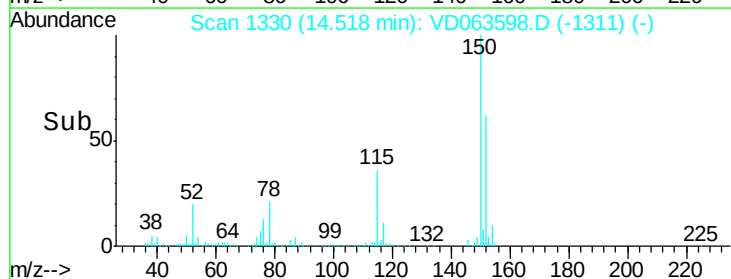
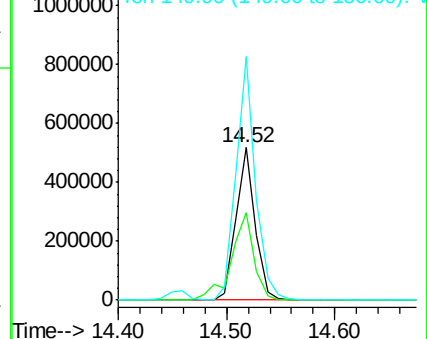
152 100

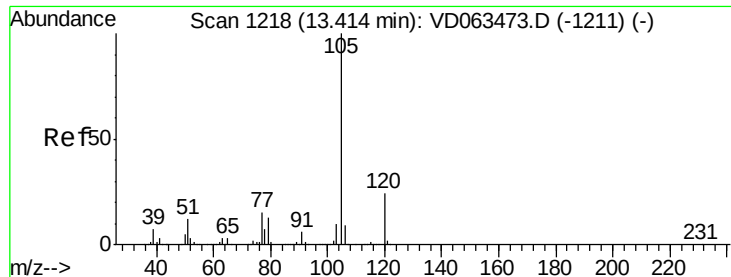
115 57.1 30.9 92.7

150 160.0 0.0 318.6



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: 18.831 ug/l

RT: 13.41 min Scan# 1217

Delta R.T. -0.01 min

Lab File: VD063598.D

Acq: 15 Aug 2019 4:00

Instrument :

MSVOA_D

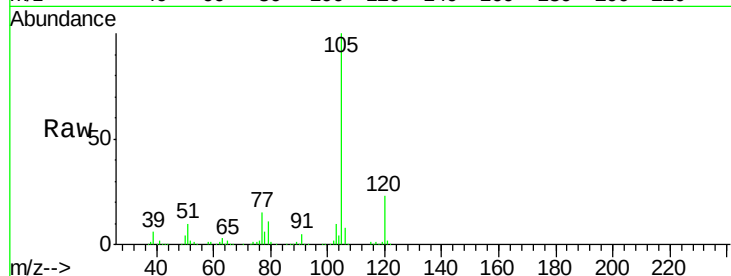
ClientSampleId :

Tot Ion:105 Resp: 764639

Ion Ratio Lower Upper

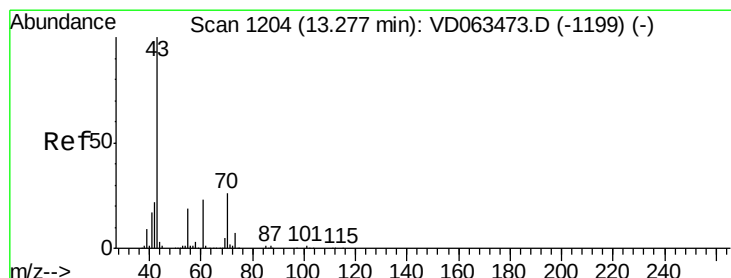
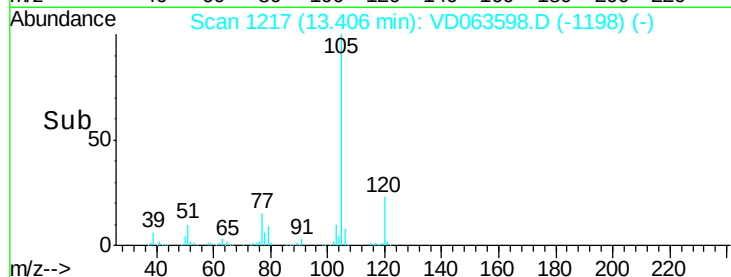
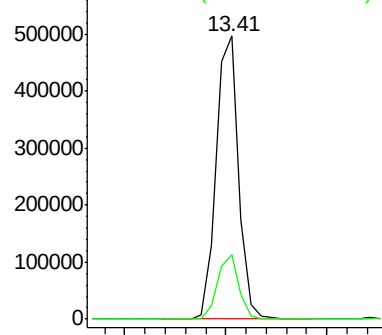
105 100

120 22.9 11.9 35.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 21.403 ug/l

RT: 13.26 min Scan# 1202

Delta R.T. -0.02 min

Lab File: VD063598.D

Acq: 15 Aug 2019 4:00

Tgt Ion: 43 Resp: 218160

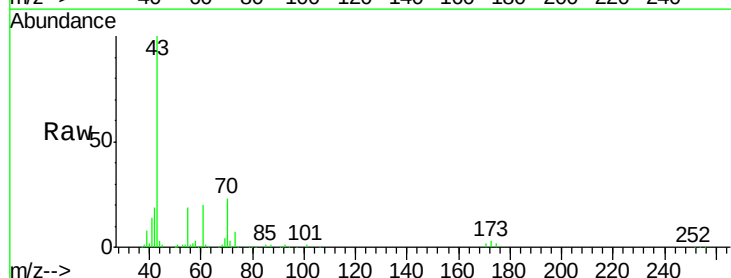
Ion Ratio Lower Upper

43 100

70 22.9 21.1 31.7

55 18.9 15.4 23.0

61 20.1 18.2 27.2

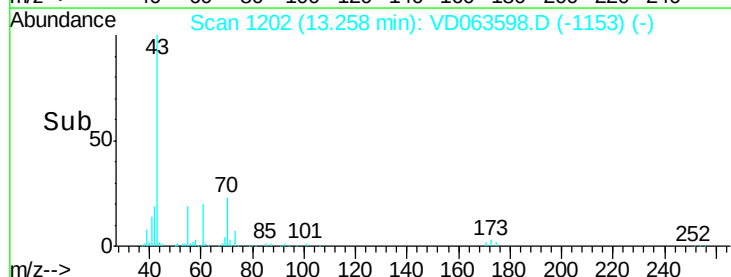
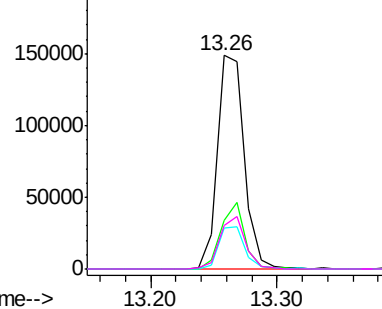


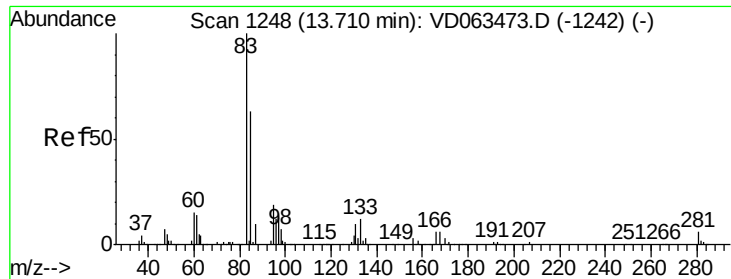
Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V





#75

1,1,2,2-Tetrachloroethane

Concen: 22.954 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. -0.01 min

Lab File: VD063598.D

Acq: 15 Aug 2019 4:00

Instrument :

MSVOA_D

ClientSampled :

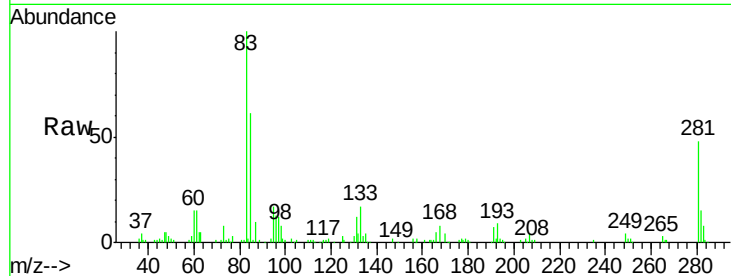
Tot Ion: 83 Resp: 154705

Ion Ratio Lower Upper

83 100

131 12.4 5.3 15.8

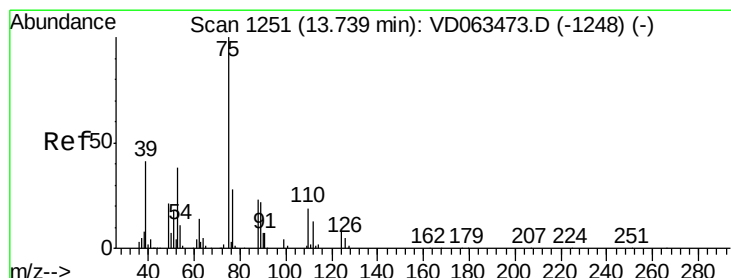
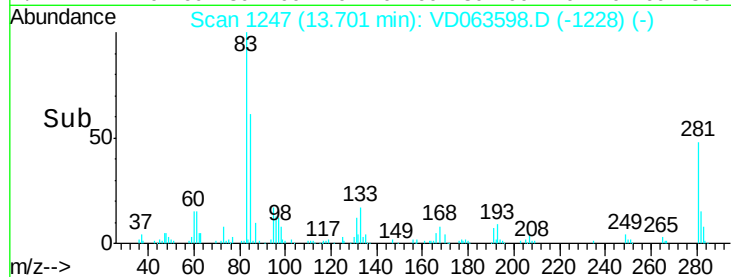
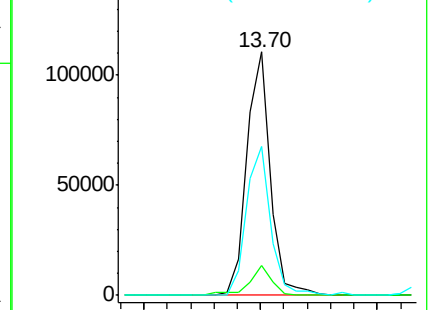
85 61.4 31.4 94.3



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 21.273 ug/l

RT: 13.73 min Scan# 1250

Delta R.T. -0.01 min

Lab File: VD063598.D

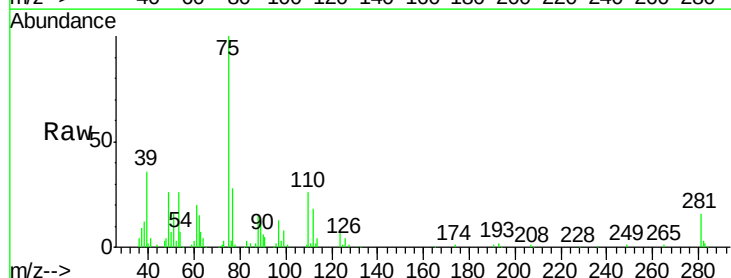
Acq: 15 Aug 2019 4:00

Tgt Ion: 75 Resp: 155857

Ion Ratio Lower Upper

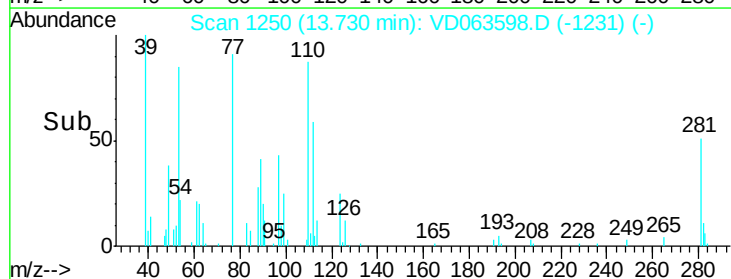
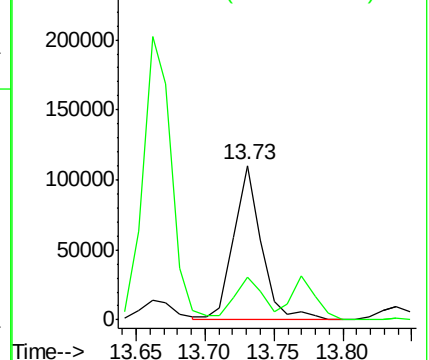
75 100

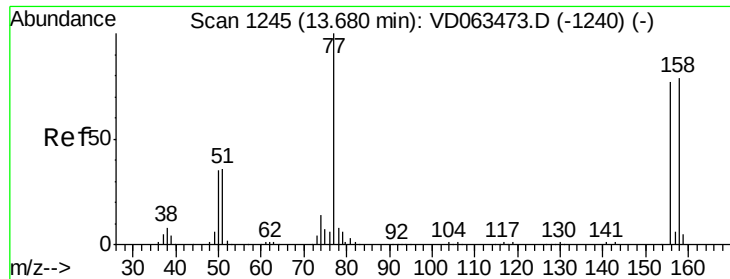
77 27.7 15.1 45.3



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 21.524 ug/l

RT: 13.67 min Scan# 1244

Delta R.T. -0.01 min

Lab File: VD063598.D

Acq: 15 Aug 2019 4:00

Instrument :

MSVOA_D

ClientSampleId :

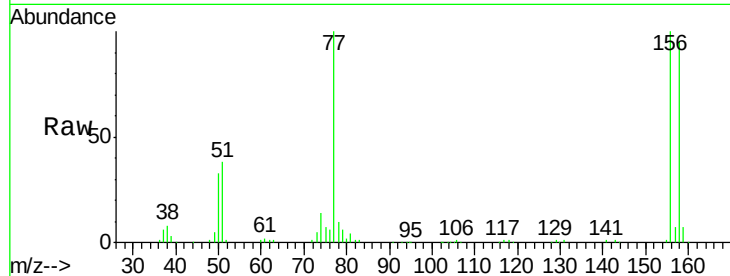
Tot Ion:156 Resp: 238859

Ion Ratio Lower Upper

156 100

77 100.4 64.6 193.8

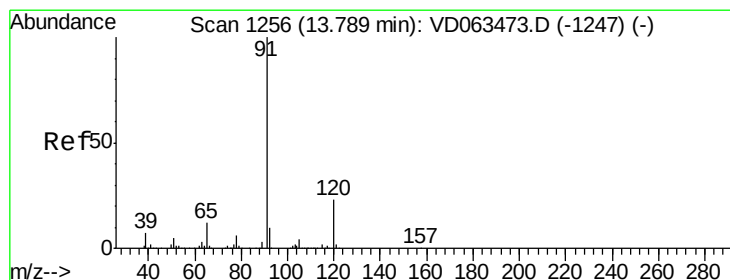
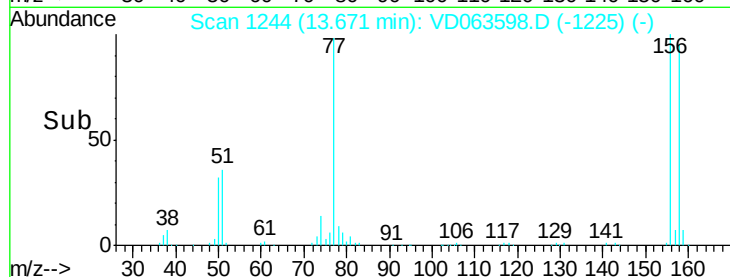
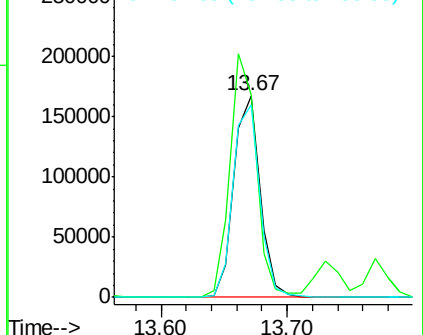
158 95.3 50.9 152.7



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: 19.538 ug/l

RT: 13.77 min Scan# 1254

Delta R.T. -0.02 min

Lab File: VD063598.D

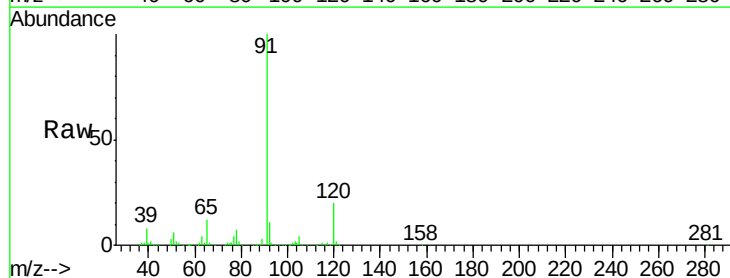
Acq: 15 Aug 2019 4:00

Tgt Ion: 91 Resp: 928236

Ion Ratio Lower Upper

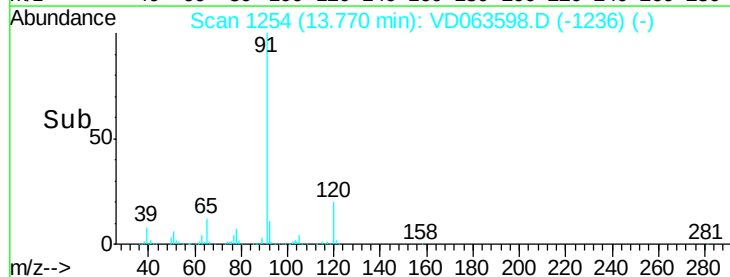
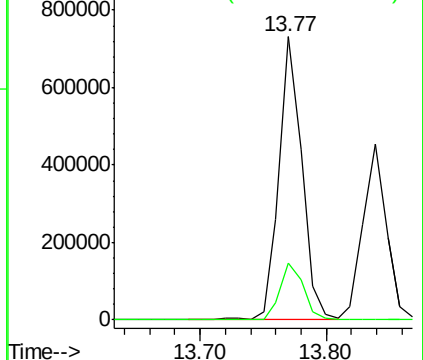
91 100

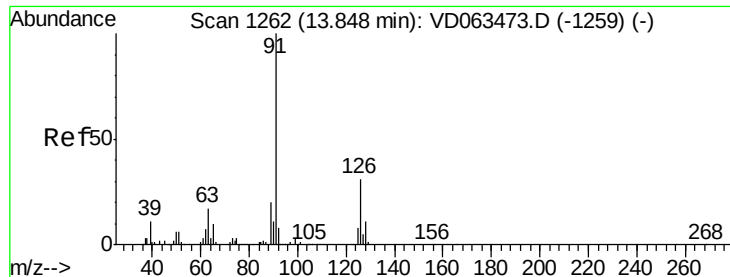
120 20.3 11.3 33.9



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 21.296 ug/l

RT: 13.84 min Scan# 1261

Delta R.T. -0.01 min

Lab File: VD063598.D

Acq: 15 Aug 2019 4:00

Instrument :

MSVOA_D

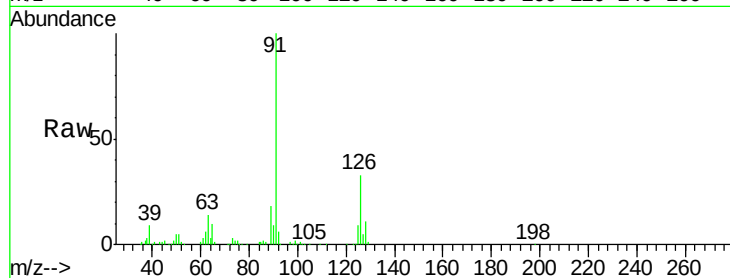
ClientSampled :

Tot Ion: 91 Resp: 583367

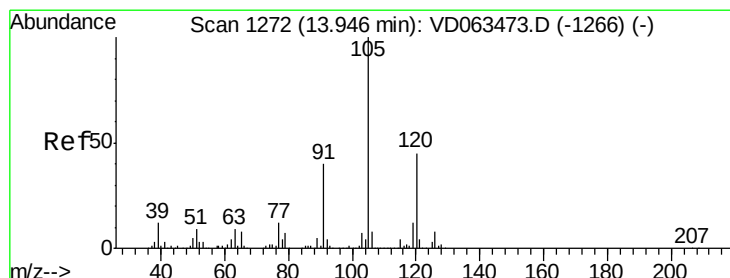
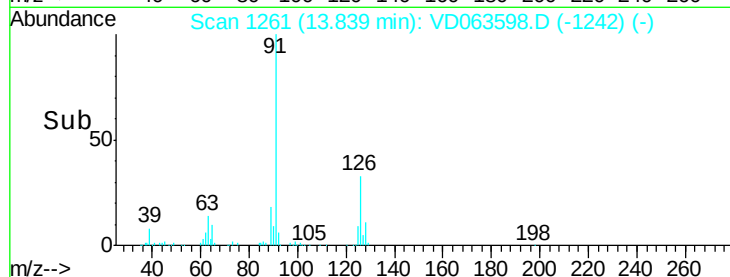
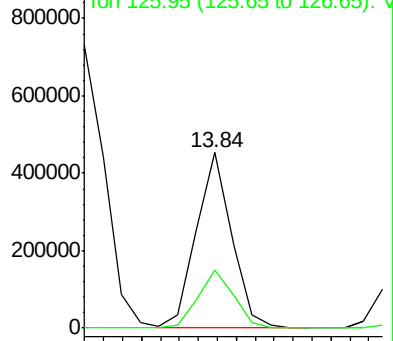
Ion Ratio Lower Upper

91 100

126 32.8 15.6 46.7



Abundance Ion 91.00 (90.70 to 91.70): VD063473.D (-1259) (-)



#80

1,3,5-Trimethylbenzene

Concen: 18.974 ug/l

RT: 13.93 min Scan# 1270

Delta R.T. -0.02 min

Lab File: VD063598.D

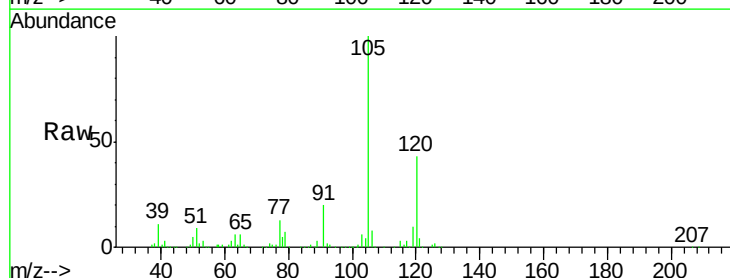
Acq: 15 Aug 2019 4:00

Tgt Ion: 105 Resp: 673144

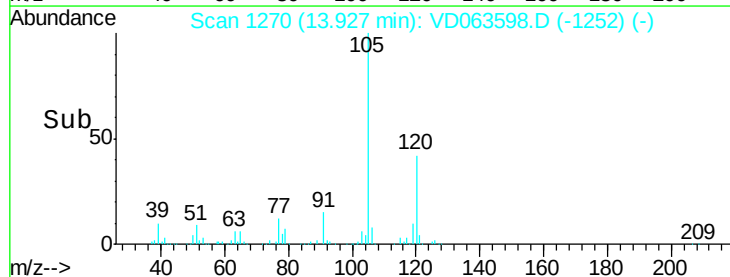
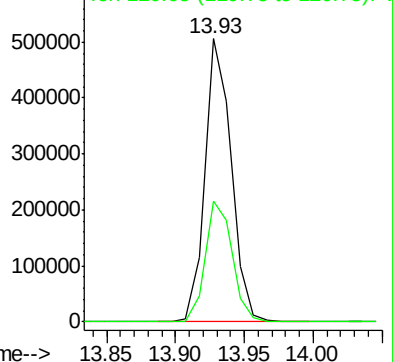
Ion Ratio Lower Upper

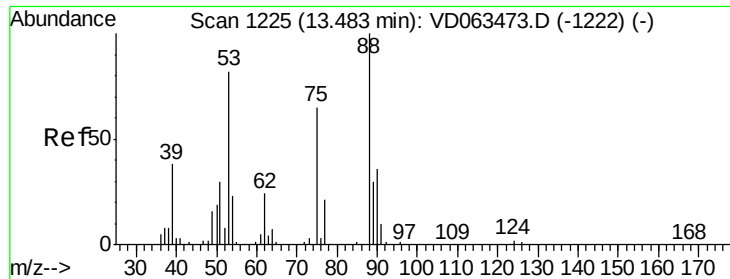
105 100

120 42.7 22.8 68.3



Abundance Ion 105.05 (104.75 to 105.75): VD063473.D (-1266) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 17.416 ug/l

RT: 13.47 min Scan# 1224

Delta R.T. -0.01 min

Lab File: VD063598.D

Acq: 15 Aug 2019 4:00

Instrument :

MSVOA_D

ClientSampleId :

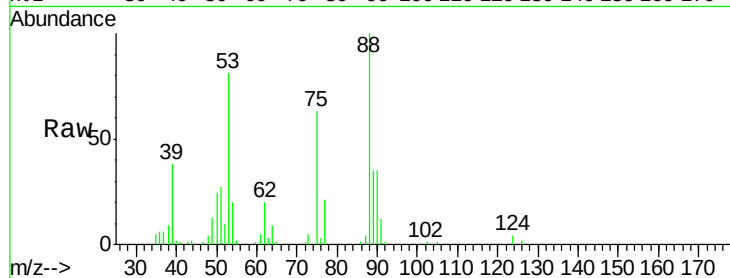
Tot Ion: 75 Resp: 34296

Ion Ratio Lower Upper

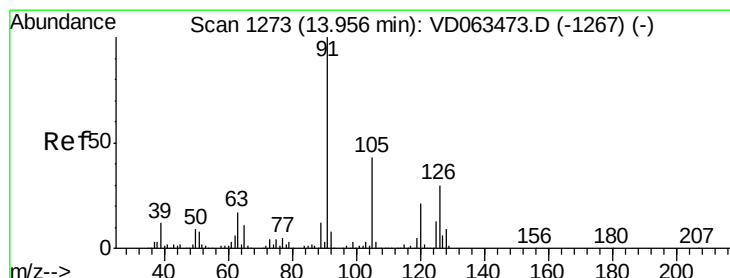
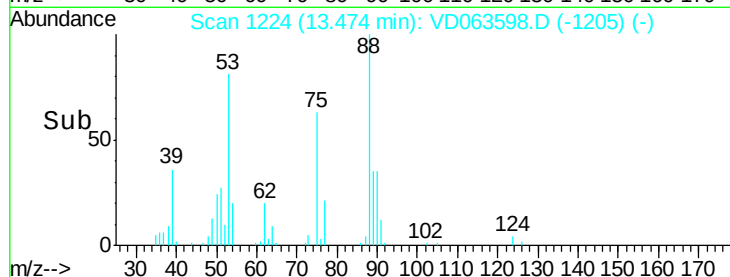
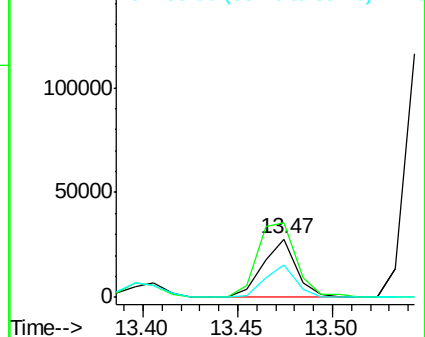
75 100

53 129.3 101.0 151.4

89 56.1 37.0 55.6#



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



#82

4-Chlorotoluene

Concen: 19.997 ug/l

RT: 13.95 min Scan# 1272

Delta R.T. -0.01 min

Lab File: VD063598.D

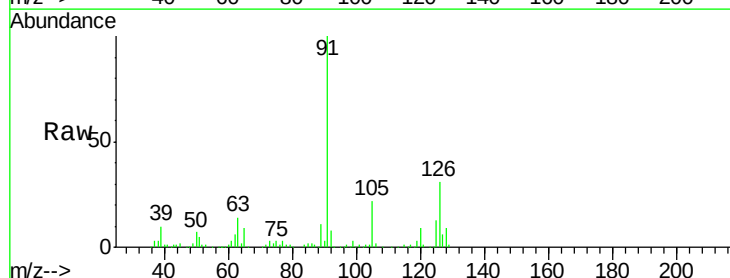
Acq: 15 Aug 2019 4:00

Tgt Ion: 91 Resp: 658696

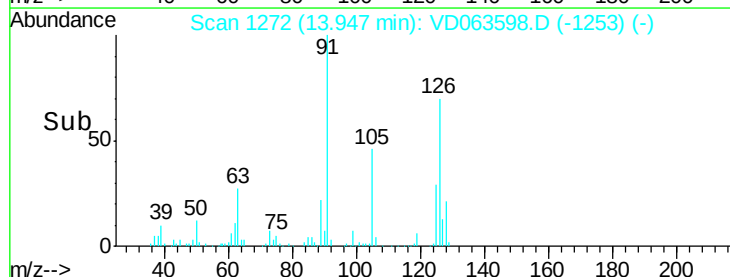
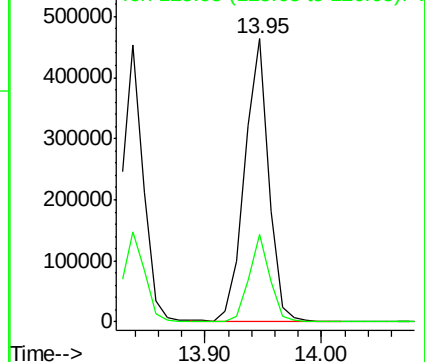
Ion Ratio Lower Upper

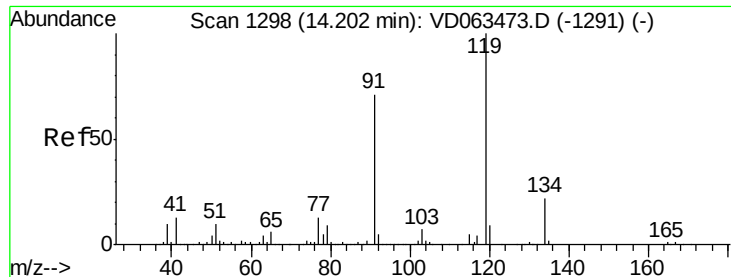
91 100

126 31.1 15.2 45.6



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

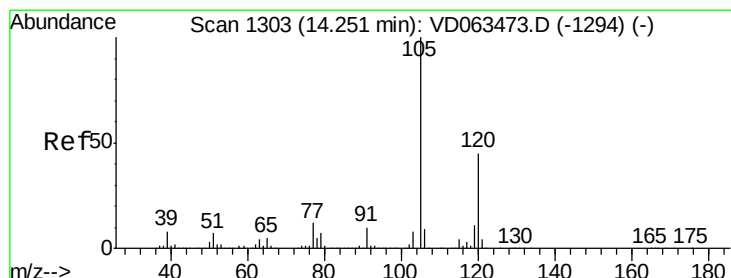
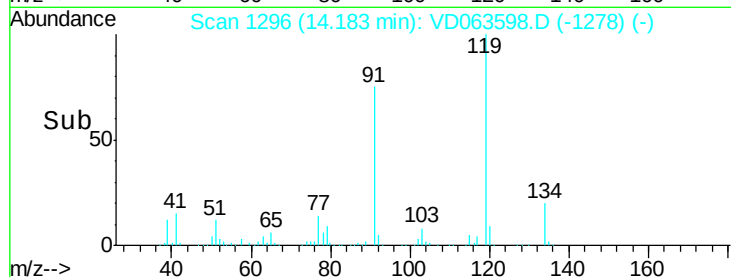
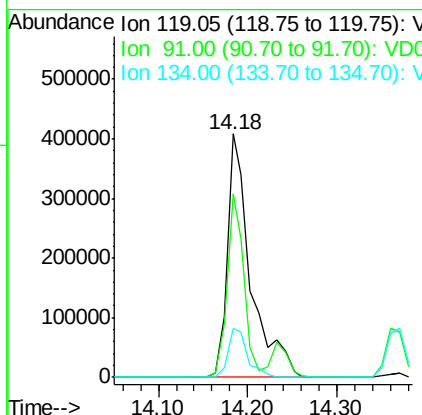
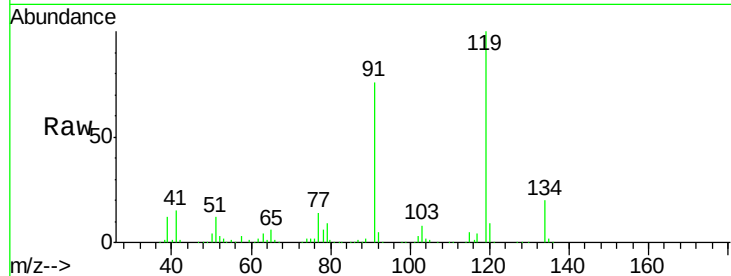




#83
 tert-Butylbenzene
 Concen: 20.174 ug/l
 RT: 14.18 min Scan# 1296
 Delta R.T. -0.02 min
 Lab File: VD063598.D
 Acq: 15 Aug 2019 4:00

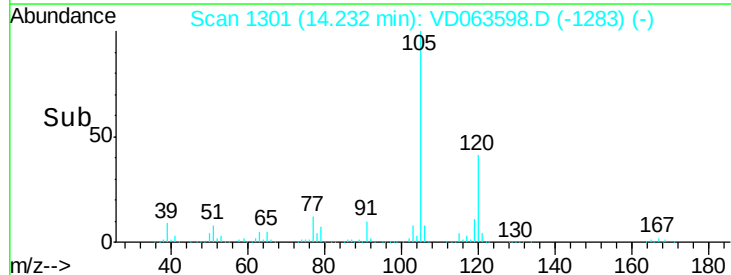
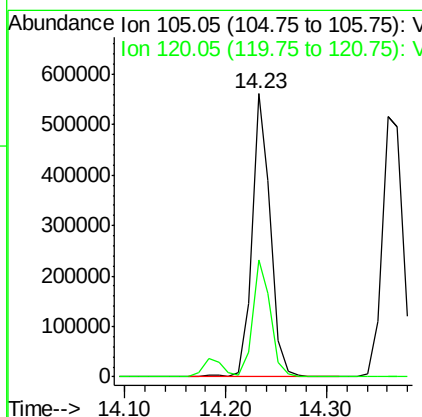
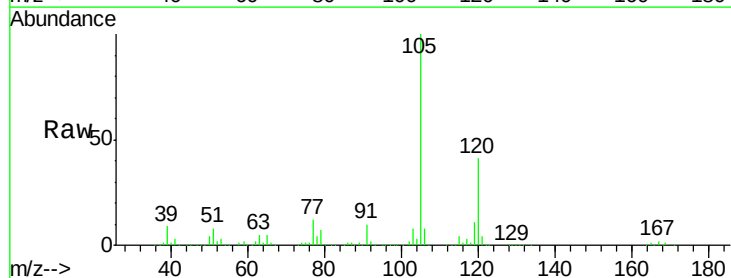
Instrument :
 MSVOA_D
 ClientSampleId :

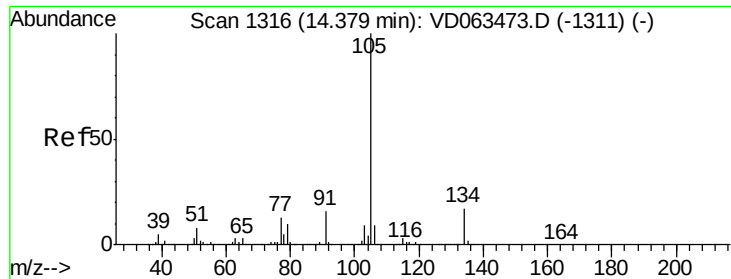
Tot Ion:119 Resp: 753681
 Ion Ratio Lower Upper
 119 100
 91 75.6 35.5 106.7
 134 20.3 11.1 33.1



#84
 1,2,4-Trimethylbenzene
 Concen: 21.656 ug/l
 RT: 14.23 min Scan# 1301
 Delta R.T. -0.02 min
 Lab File: VD063598.D
 Acq: 15 Aug 2019 4:00

Tgt Ion:105 Resp: 710878
 Ion Ratio Lower Upper
 105 100
 120 41.3 22.7 68.1





#85

sec-Butylbenzene

Concen: 18.958 ug/l

RT: 14.36 min Scan# 1314

Delta R.T. -0.02 min

Lab File: VD063598.D

Acq: 15 Aug 2019 4:00

Instrument :

MSVOA_D

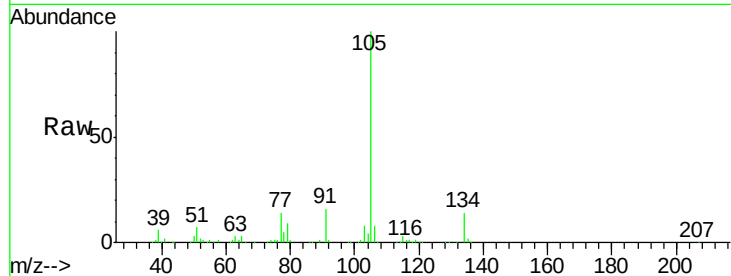
ClientSampled :

Tot Ion:105 Resp: 752155

Ion Ratio Lower Upper

105 100

134 14.1 8.3 24.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V

14.36

500000

400000

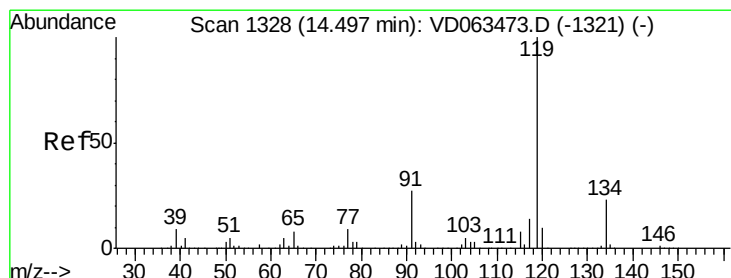
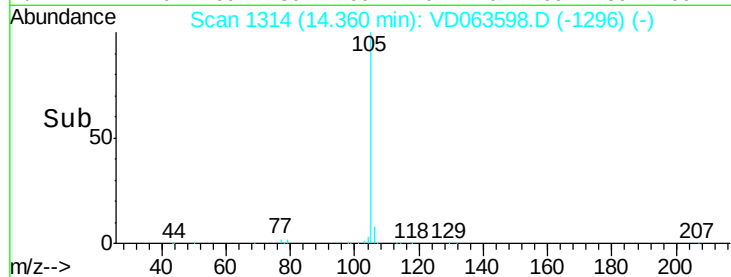
300000

200000

100000

0

Time-->



#86

p-Isopropyltoluene

Concen: 20.275 ug/l

RT: 14.49 min Scan# 1327

Delta R.T. -0.01 min

Lab File: VD063598.D

Acq: 15 Aug 2019 4:00

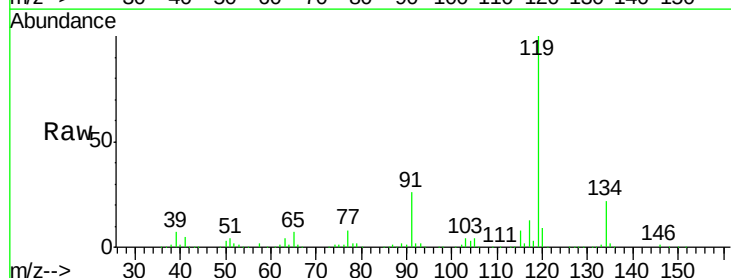
Tgt Ion:119 Resp: 769150

Ion Ratio Lower Upper

119 100

134 21.7 11.3 33.8

91 26.3 13.5 40.4



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

14.49

800000

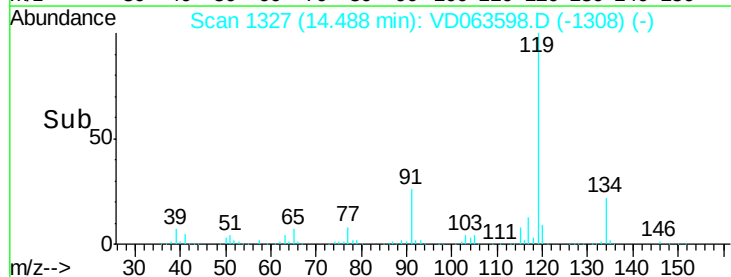
600000

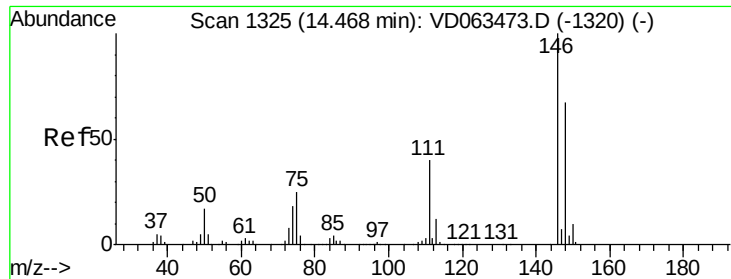
400000

200000

0

Time-->

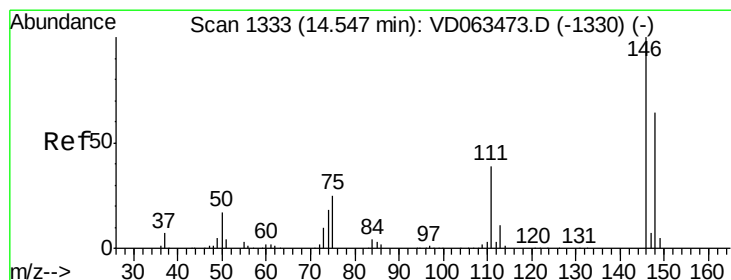
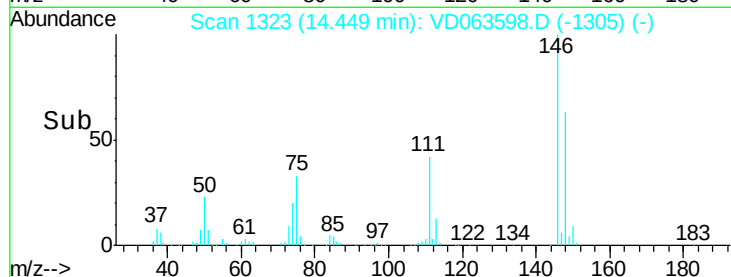
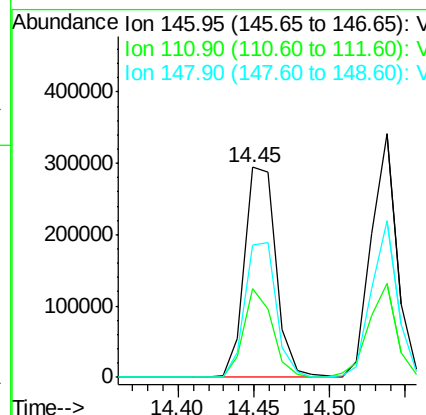
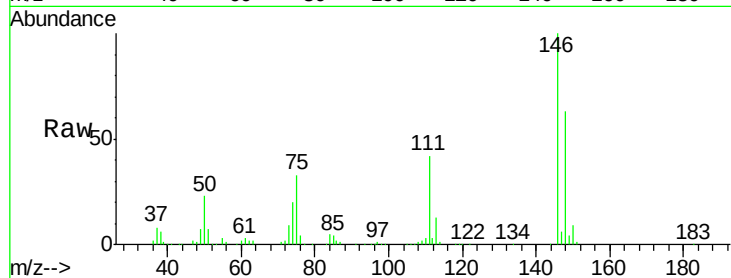




#87
 1,3-Dichlorobenzene
 Concen: 21.280 ug/l
 RT: 14.45 min Scan# 1323
 Delta R.T. -0.02 min
 Lab File: VD063598.D
 Acq: 15 Aug 2019 4:00

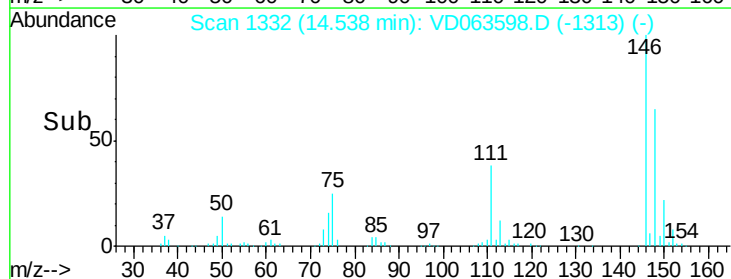
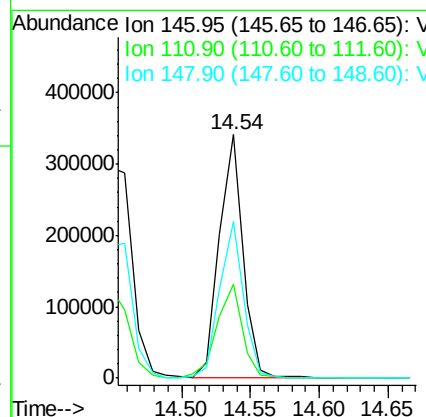
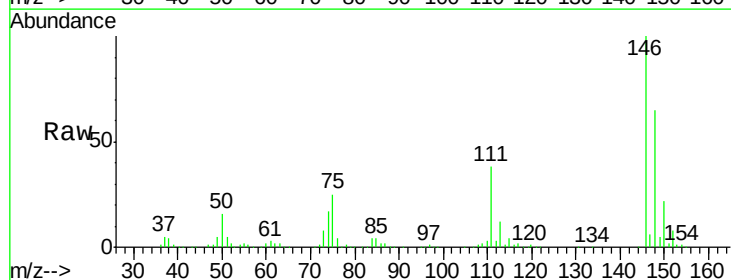
Instrument :
 MSVOA_D
 ClientSampled :

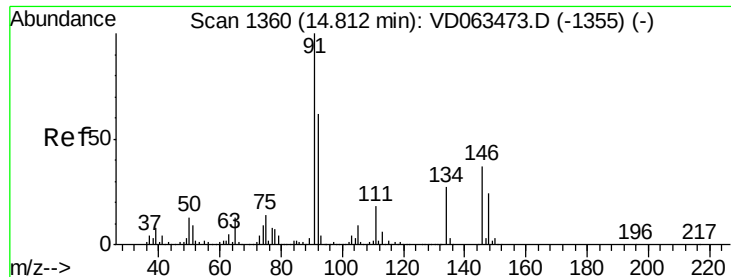
Tot Ion:146 Resp: 427166
 Ion Ratio Lower Upper
 146 100
 111 42.3 20.0 60.0
 148 62.8 33.6 100.6



#88
 1,4-Dichlorobenzene
 Concen: 21.049 ug/l
 RT: 14.54 min Scan# 1332
 Delta R.T. -0.01 min
 Lab File: VD063598.D
 Acq: 15 Aug 2019 4:00

Tgt Ion:146 Resp: 405385
 Ion Ratio Lower Upper
 146 100
 111 38.4 19.7 59.0
 148 64.5 32.1 96.3





#89

n-Butylbenzene

Concen: 19.755 ug/l

RT: 14.79 min Scan# 1358

Delta R.T. -0.02 min

Lab File: VD063598.D

Acq: 15 Aug 2019 4:00

Instrument :

MSVOA_D

ClientSampleId :

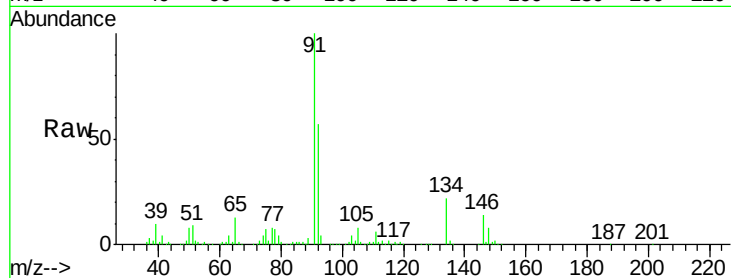
Tot Ion: 91 Resp: 683988

Ion Ratio Lower Upper

91 100

92 57.4 30.8 92.3

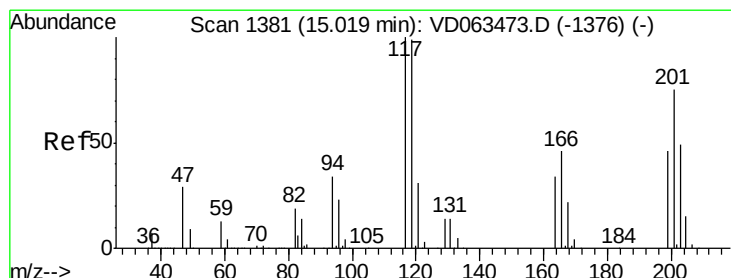
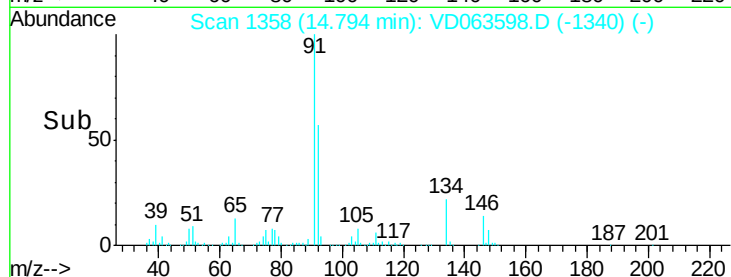
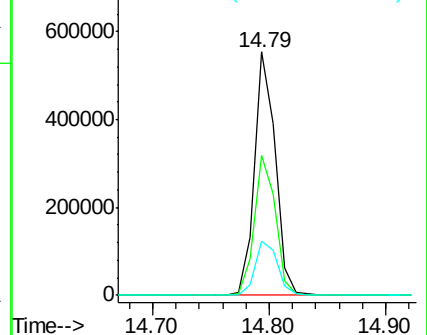
134 22.4 13.4 40.2



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 92.00 (91.70 to 92.70): VDC

Ion 134.10 (133.80 to 134.80): VDC



#90

Hexachloroethane

Concen: 20.774 ug/l

RT: 15.01 min Scan# 1380

Delta R.T. -0.01 min

Lab File: VD063598.D

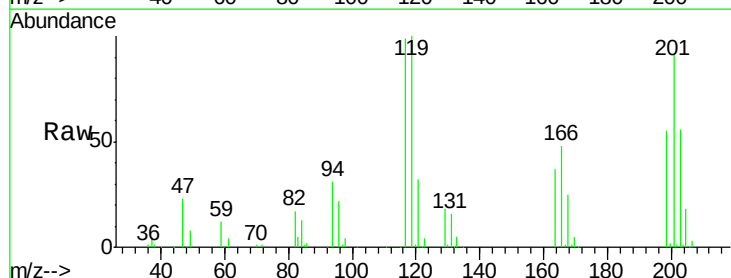
Acq: 15 Aug 2019 4:00

Tgt Ion: 117 Resp: 198081

Ion Ratio Lower Upper

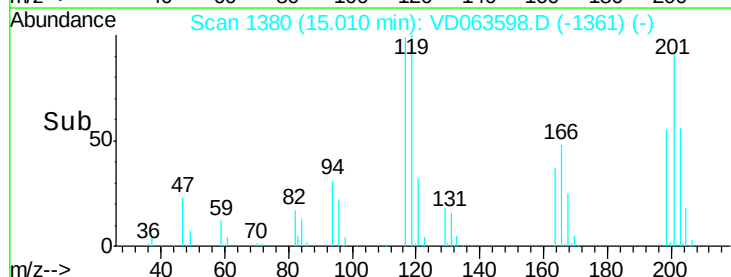
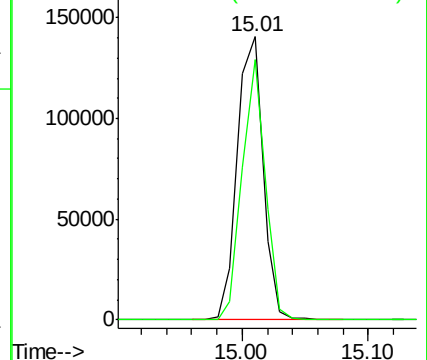
117 100

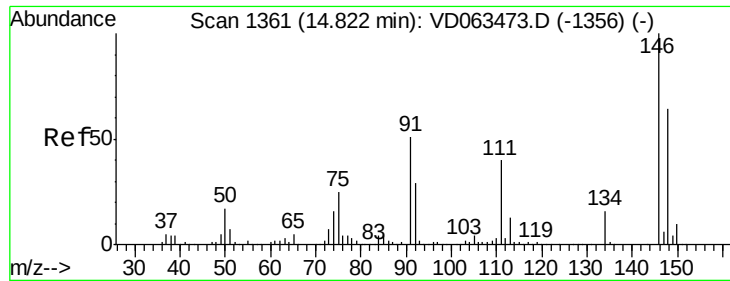
201 92.1 37.5 112.5



Abundance Ion 116.85 (116.55 to 117.55): VDC

Ion 200.75 (200.45 to 201.45): VDC

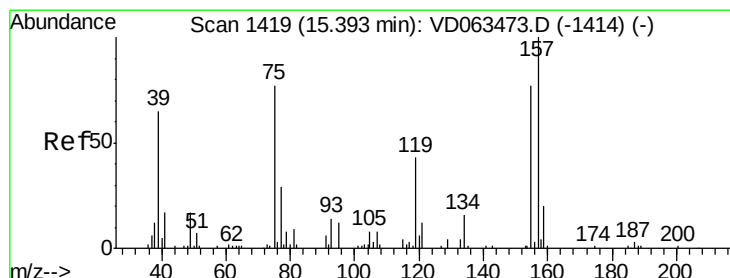
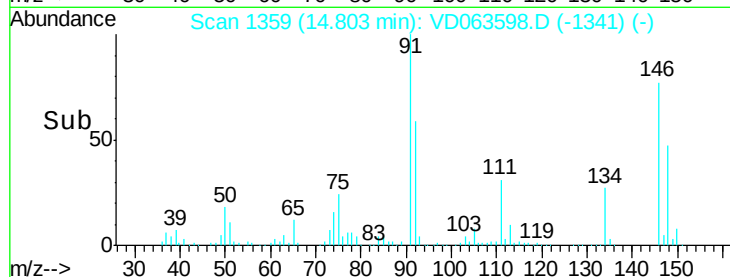
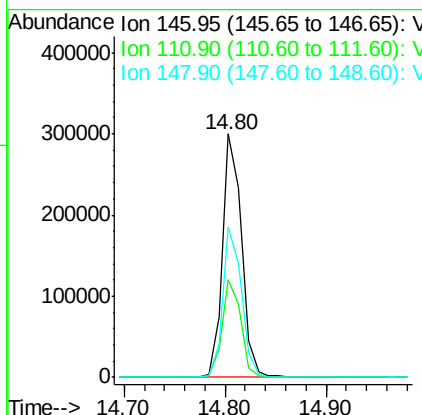
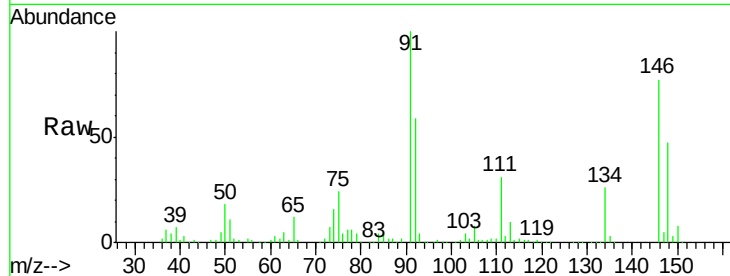




#91
 1,2-Dichlorobenzene
 Concen: 23.245 ug/l
 RT: 14.80 min Scan# 1359
 Delta R.T. -0.02 min
 Lab File: VD063598.D
 Acq: 15 Aug 2019 4:00

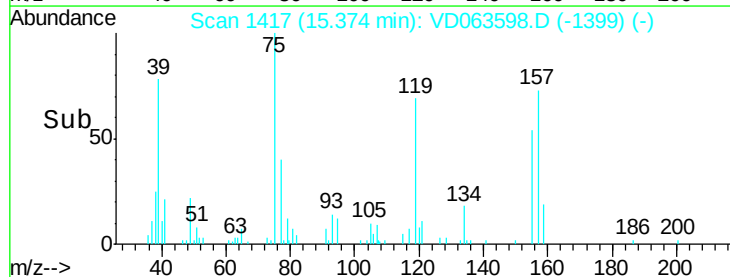
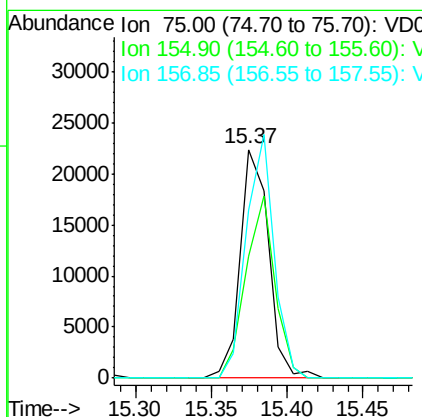
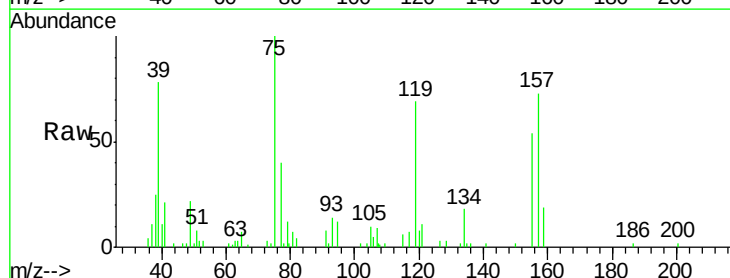
Instrument :
 MSVOA_D
 ClientSampleId :

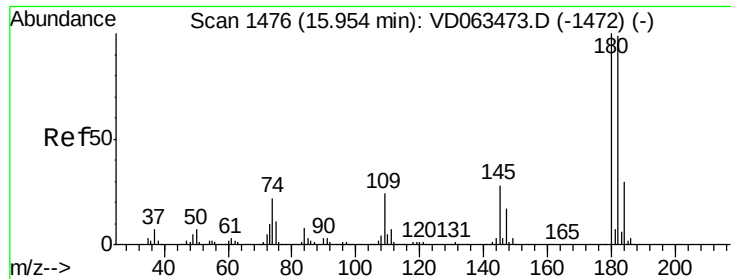
Tot Ion:146 Resp: 395881
 Ion Ratio Lower Upper
 146 100
 111 40.3 20.2 60.6
 148 61.6 32.1 96.5



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 22.981 ug/l
 RT: 15.37 min Scan# 1417
 Delta R.T. -0.02 min
 Lab File: VD063598.D
 Acq: 15 Aug 2019 4:00

Tgt Ion: 75 Resp: 29164
 Ion Ratio Lower Upper
 75 100
 155 53.7 50.1 150.3
 157 73.3 65.0 195.1

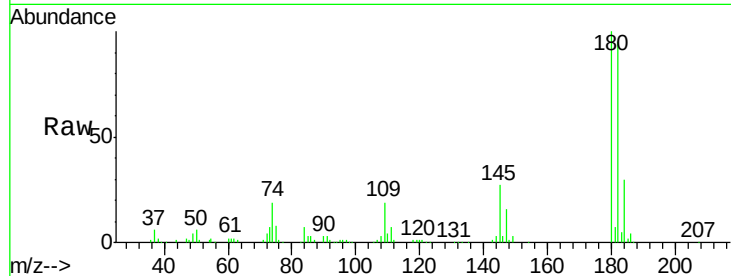




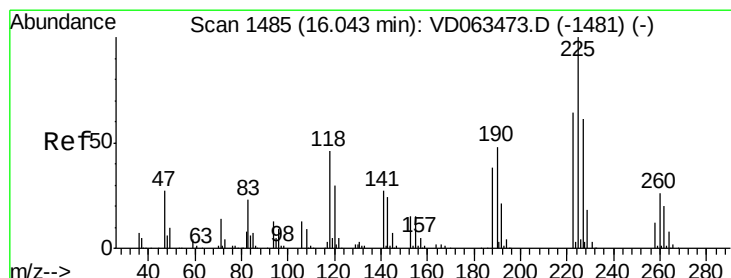
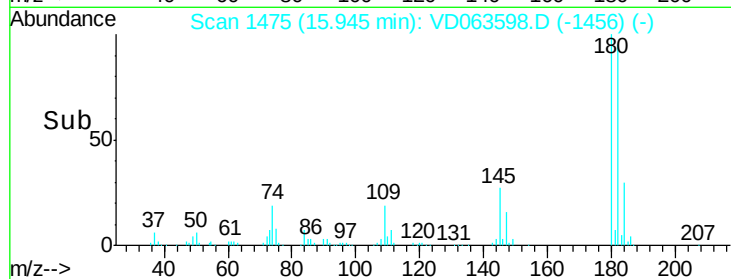
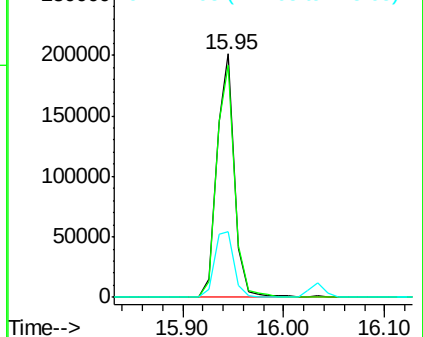
#93
 1,2,4-Trichlorobenzene
 Concen: 19.592 ug/l
 RT: 15.95 min Scan# 1475
 Delta R.T. -0.01 min
 Lab File: VD063598.D
 Acq: 15 Aug 2019 4:00

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:180 Resp: 245514
 Ion Ratio Lower Upper
 180 100
 182 95.5 49.7 149.1
 145 26.7 14.1 42.2

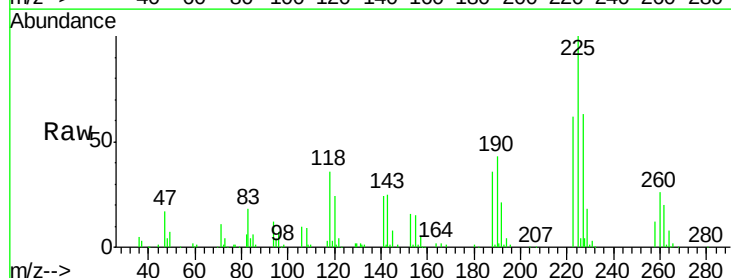


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

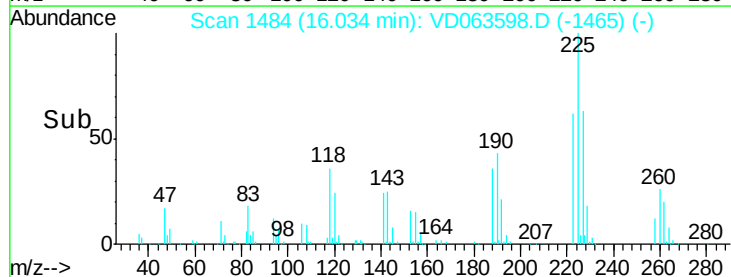
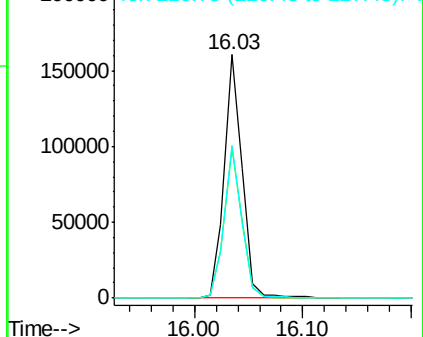


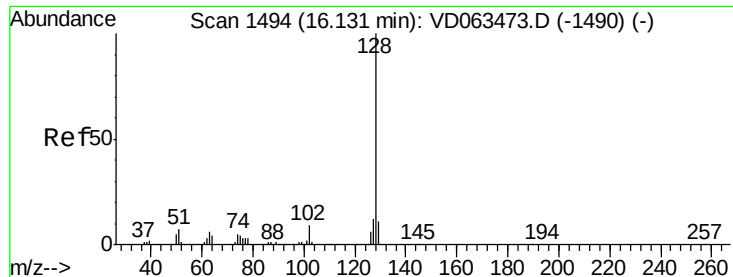
#94
 Hexachlorobutadiene
 Concen: 19.443 ug/l
 RT: 16.03 min Scan# 1484
 Delta R.T. -0.01 min
 Lab File: VD063598.D
 Acq: 15 Aug 2019 4:00

Tgt Ion:225 Resp: 185698
 Ion Ratio Lower Upper
 225 100
 223 61.5 31.9 95.5
 227 62.7 30.7 92.1



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

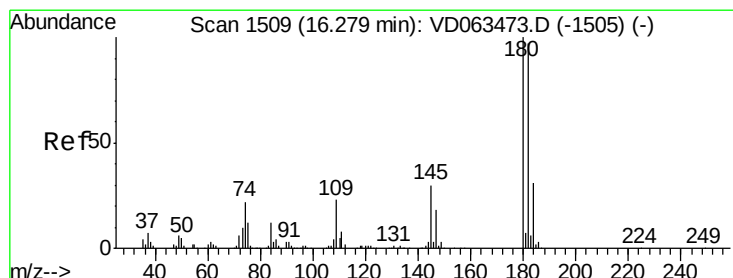
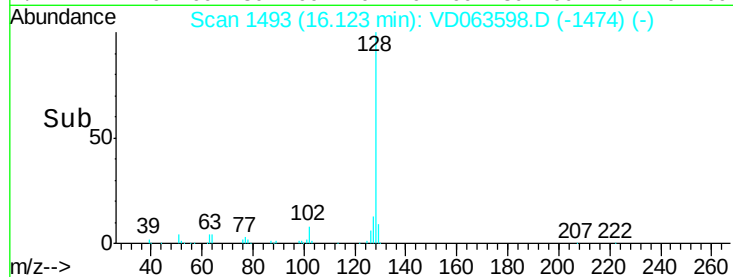
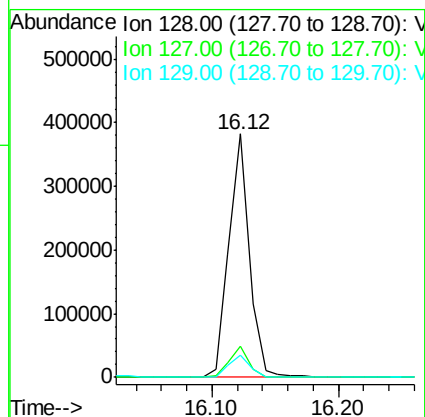
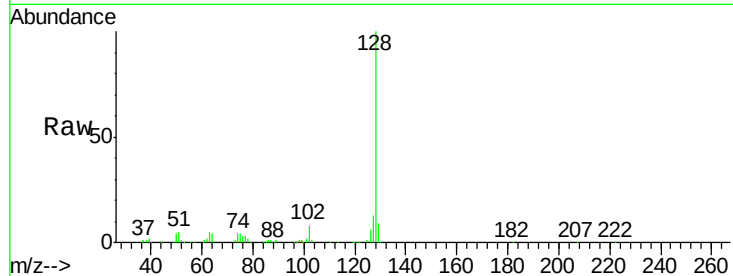




#95
Naphthalene
Concen: 22.641 ug/l
RT: 16.12 min Scan# 1493
Delta R.T. -0.01 min
Lab File: VD063598.D
Acq: 15 Aug 2019 4:00

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:128 Resp: 429994
Ion Ratio Lower Upper
128 100
127 12.9 9.4 14.0
129 9.2 8.5 12.7



#96
1,2,3-Trichlorobenzene
Concen: 21.270 ug/l
RT: 16.27 min Scan# 1508
Delta R.T. -0.01 min
Lab File: VD063598.D
Acq: 15 Aug 2019 4:00

Tgt Ion:180 Resp: 215283
Ion Ratio Lower Upper
180 100
182 99.8 48.4 145.2
145 30.8 14.9 44.9

