

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD070819\
 Data File : VD063049.D
 Acq On : 8 Jul 2019 21:02
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00µl/5ml/MSVOA D/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

Quant Time: Jul 09 05:13:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061919S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 01:50:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	757199	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	1061934	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	885505	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	506508	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.44	65	403385	49.01	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	98.02%	
35) Dibromofluoromethane	6.92	113	422582	47.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.38%	
50) Toluene-d8	10.41	98	904102	46.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.78%	
62) 4-Bromofluorobenzene	13.55	95	406574	45.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.76%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.57	85	423774	43.249	ug/l	95
3) Chloromethane	1.74	50	322580	43.775	ug/l	93
4) Vinyl Chloride	1.84	62	325246	44.515	ug/l	97
5) Bromomethane	2.14	94	185776	54.294	ug/l	92
6) Chloroethane	2.26	64	176259	53.285	ug/l	91
7) Trichlorofluoromethane	2.52	101	772940	52.273	ug/l	97
8) Diethyl Ether	2.87	74	98557	52.459	ug/l	85
9) 1,1,2-Trichlorotrifluoroet	3.13	101	395934	49.426	ug/l	89
10) Methyl Iodide	3.29	142	554236	52.443	ug/l	99
11) Tert butyl alcohol	4.07	59	99454	265.309	ug/l #	91
12) 1,1-Dichloroethene	3.12	96	292112	48.609	ug/l	97
13) Acrolein	3.02	56	62649	163.707	ug/l #	75
14) Allyl chloride	3.61	41	449146	50.583	ug/l	97
15) Acrylonitrile	4.19	53	245874	279.141	ug/l	93
16) Acetone	3.22	43	403087	241.255	ug/l	100
17) Carbon Disulfide	3.36	76	862436	44.905	ug/l	96
18) Methyl Acetate	3.64	43	150800	60.693	ug/l	99
19) Methyl tert-butyl Ether	4.23	73	770303	59.212	ug/l	98
20) Methylene Chloride	3.80	84	327290	52.141	ug/l	94
21) trans-1,2-Dichloroethene	4.21	96	324455	50.707	ug/l	96
22) Diisopropyl ether	5.11	45	1004045	55.602	ug/l	96
23) Vinyl Acetate	5.05	43	3119918	276.109	ug/l	99
24) 1,1-Dichloroethane	4.97	63	590449	50.221	ug/l	99
25) 2-Butanone	6.07	43	444003	288.430	ug/l	95
26) 2,2-Dichloropropane	6.01	77	663594	53.250	ug/l	99
27) cis-1,2-Dichloroethene	6.03	96	377327	55.764	ug/l	92
28) Bromochloromethane	6.43	49	237335	57.316	ug/l	94
29) Tetrahydrofuran	6.45	42	207331	284.662	ug/l	97
30) Chloroform	6.66	83	812368	56.815	ug/l	95
31) Cyclohexane	6.94	56	388918	50.319	ug/l	87
32) 1,1,1-Trichloroethane	6.85	97	780960	52.439	ug/l	95
36) 1,1-Dichloropropene	7.14	75	526510	52.375	ug/l	98
37) Ethyl Acetate	6.17	43	211252	50.026	ug/l #	95
38) Carbon Tetrachloride	7.10	117	856380	56.643	ug/l	99

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 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 01:50:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.86	83	431202	48.730	ug/l	98
40) Benzene	7.44	78	1080601	53.551	ug/l	99
41) Methacrylonitrile	6.44	41	297256	56.071	ug/l #	95
42) 1,2-Dichloroethane	7.57	62	614952	55.864	ug/l	99
43) Isopropyl Acetate	9.24	43	281443	53.402	ug/l	96
44) Trichloroethene	8.53	130	424336	53.639	ug/l	94
45) 1,2-Dichloropropane	8.93	63	253960	50.614	ug/l	99
46) Dibromomethane	9.06	93	232763	54.003	ug/l	91
47) Bromodichloromethane	9.36	83	641951	57.348	ug/l	97
48) Methyl methacrylate	9.11	41	190043	50.743	ug/l	99
49) 1,4-Dioxane	9.08	88	37035	1188.580	ug/l	91
51) 4-Methyl-2-Pentanone	10.30	43	1064745	284.950	ug/l	97
52) Toluene	10.51	92	735283	54.207	ug/l	99
53) t-1,3-Dichloropropene	10.91	75	527948	57.623	ug/l	96
54) cis-1,3-Dichloropropene	10.03	75	500635	50.272	ug/l	92
55) 1,1,2-Trichloroethane	11.19	97	261765	56.171	ug/l	93
56) Ethyl methacrylate	11.04	69	262577	52.723	ug/l	95
57) 1,3-Dichloropropane	11.40	76	368789	51.684	ug/l	96
58) 2-Chloroethyl Vinyl ether	9.86	63	639493	250.115	ug/l	99
59) 2-Hexanone	11.53	43	735159	276.254	ug/l	95
60) Dibromochloromethane	11.68	129	518837	59.772	ug/l	100
61) 1,2-Dibromoethane	11.81	107	301449	54.770	ug/l	99
64) Tetrachloroethene	11.25	164	390240	53.546	ug/l	98
65) Chlorobenzene	12.40	112	897005	54.582	ug/l	99
66) 1,1,1,2-Tetrachloroethane	12.51	131	451988	58.811	ug/l	93
67) Ethyl Benzene	12.51	91	1676095	56.806	ug/l	98
68) m/p-Xylenes	12.66	106	1129462	109.908	ug/l	96
69) o-Xylene	13.05	106	560420	59.656	ug/l	100
70) Styrene	13.07	104	977755	59.256	ug/l	95
71) Bromoform	13.23	173	319306	60.639	ug/l	92
73) Isopropylbenzene	13.40	105	1709786	52.647	ug/l	99
74) N-amyl acetate	13.26	43	447183	56.700	ug/l	95
75) 1,1,2,2-Tetrachloroethane	13.70	83	301750	57.026	ug/l	98
76) 1,2,3-Trichloropropane	13.73	75	333225	56.988	ug/l	100
77) Bromobenzene	13.67	156	490910	56.199	ug/l	98
78) n-propylbenzene	13.77	91	1958437	51.811	ug/l	100
79) 2-Chlorotoluene	13.83	91	1166447	53.998	ug/l	98
80) 1,3,5-Trimethylbenzene	13.93	105	1341312	49.170	ug/l	99
81) trans-1,4-Dichloro-2-buten	13.47	75	87255	56.937	ug/l	94
82) 4-Chlorotoluene	13.94	91	1279407	49.196	ug/l	98
83) tert-Butylbenzene	14.19	119	1596349	52.500	ug/l	95
84) 1,2,4-Trimethylbenzene	14.24	105	1445851	51.712	ug/l	98
85) sec-Butylbenzene	14.37	105	1743989	52.772	ug/l	99
86) p-Isopropyltoluene	14.48	119	1568702	51.886	ug/l	99
87) 1,3-Dichlorobenzene	14.45	146	814272	52.002	ug/l	97
88) 1,4-Dichlorobenzene	14.53	146	814414	51.783	ug/l	98
89) n-Butylbenzene	14.80	91	1460048	51.597	ug/l	96
90) Hexachloroethane	15.01	117	445115	54.757	ug/l	91
91) 1,2-Dichlorobenzene	14.81	146	729191	54.429	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	15.38	75	56678	54.878	ug/l #	24

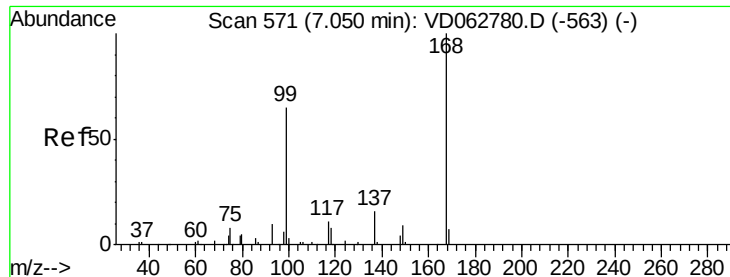
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD070819\
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.94	180	556342	53.161	ug/l	96
94) Hexachlorobutadiene	16.04	225	424749	53.127	ug/l	98
95) Naphthalene	16.12	128	859831	58.619	ug/l	100
96) 1,2,3-Trichlorobenzene	16.27	180	442177	54.991	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.01 min

Lab File: VD063049.D

Acq: 8 Jul 2019 21:02

Instrument :

MSVOA_D

ClientSampleId :

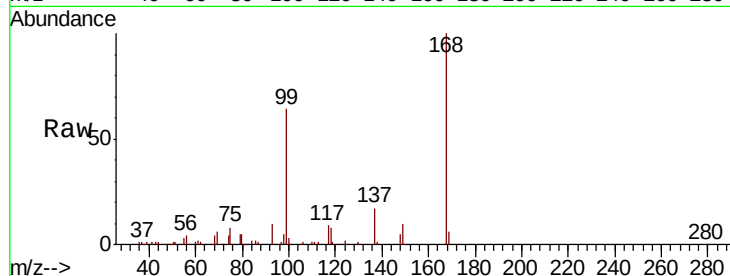
VSTDCCC050EC

Tot Ion:168 Resp: 757199

Ion Ratio Lower Upper

168 100

99 63.6 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

250000

200000

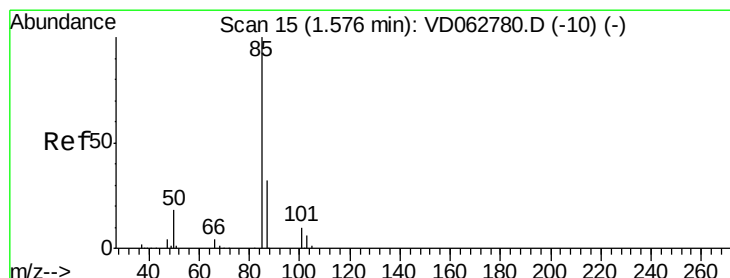
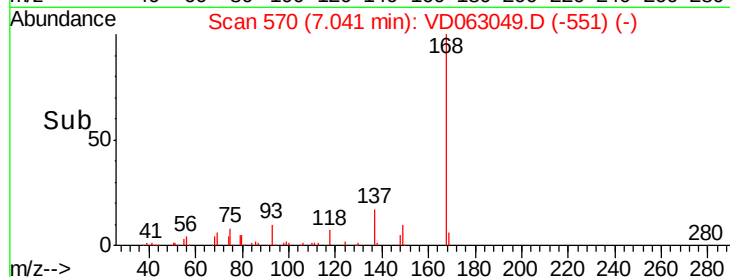
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 43.249 ug/l

RT: 1.57 min Scan# 14

Delta R.T. -0.01 min

Lab File: VD063049.D

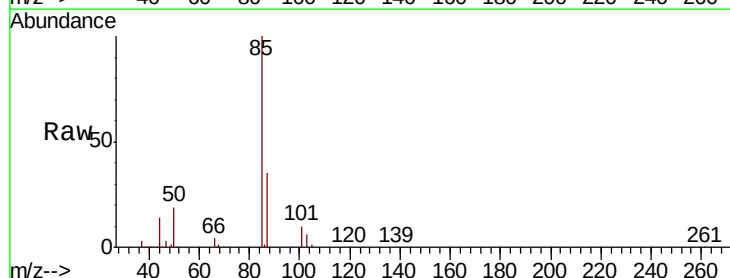
Acq: 8 Jul 2019 21:02

Tgt Ion: 85 Resp: 423774

Ion Ratio Lower Upper

85 100

87 34.6 15.9 47.6



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.57

250000

200000

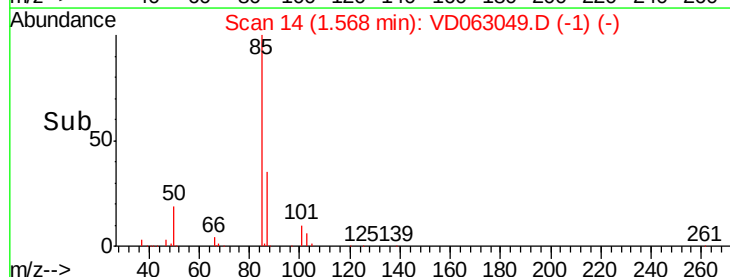
150000

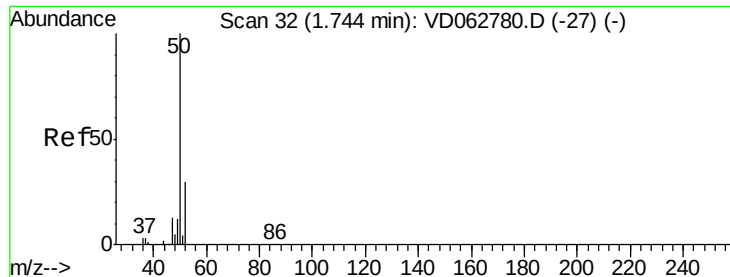
100000

50000

0

Time-->





#3

Chloromethane

Concen: 43.775 ug/l

RT: 1.74 min Scan# 32

Delta R.T. 0.00 min

Lab File: VD063049.D

Acq: 8 Jul 2019 21:02

Instrument :

MSVOA_D

ClientSampleId :

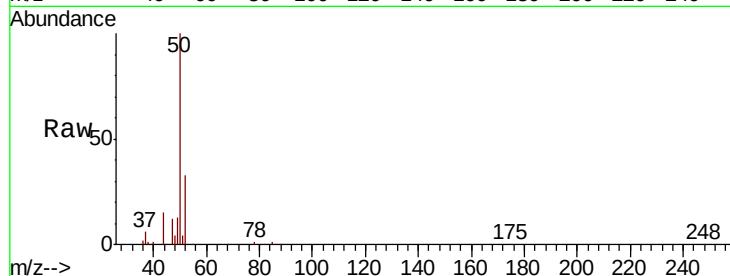
VSTDCCC050EC

Tot Ion: 50 Resp: 322580

Ion Ratio Lower Upper

50 100

52 33.4 23.6 35.4



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1.74

120000

100000

80000

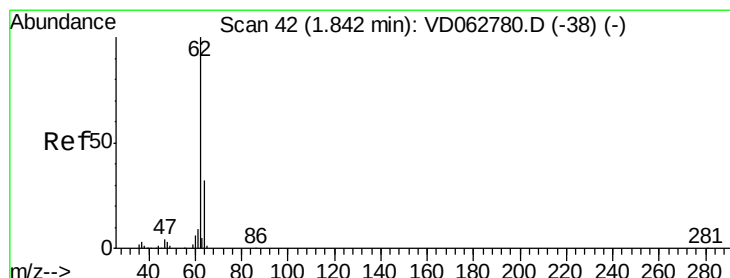
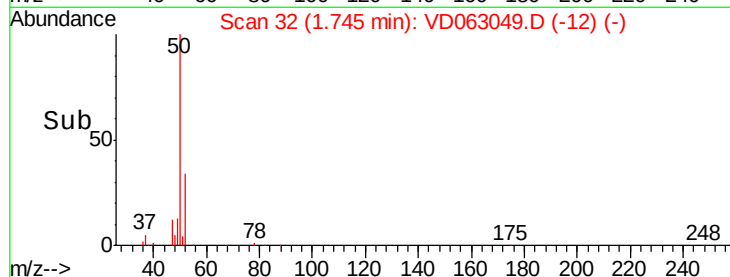
60000

40000

20000

0

Time--> 1.60 1.70 1.80 1.90



#4

Vinyl Chloride

Concen: 44.515 ug/l

RT: 1.84 min Scan# 42

Delta R.T. 0.00 min

Lab File: VD063049.D

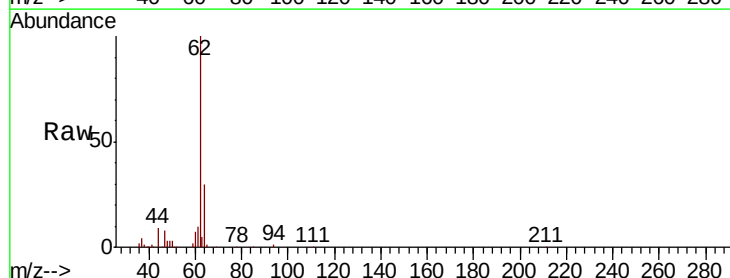
Acq: 8 Jul 2019 21:02

Tgt Ion: 62 Resp: 325246

Ion Ratio Lower Upper

62 100

64 30.4 25.6 38.4



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC

1.84

200000

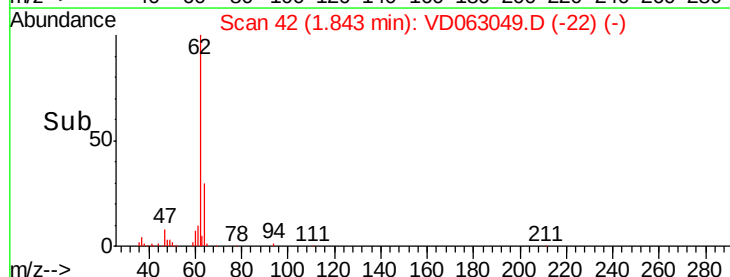
150000

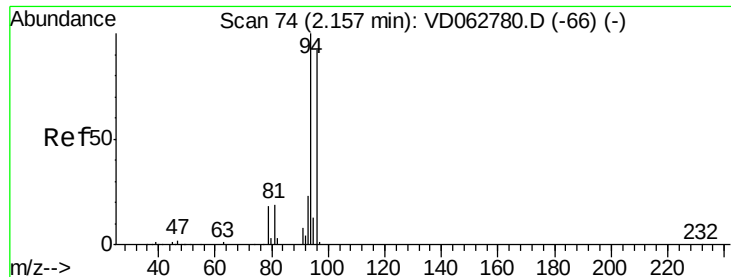
100000

50000

0

Time--> 1.70 1.80 1.90 2.00





#5

Bromomethane

Concen: 54.294 ug/l

RT: 2.14 min Scan# 72

Delta R.T. -0.02 min

Lab File: VD063049.D

Acq: 8 Jul 2019 21:02

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

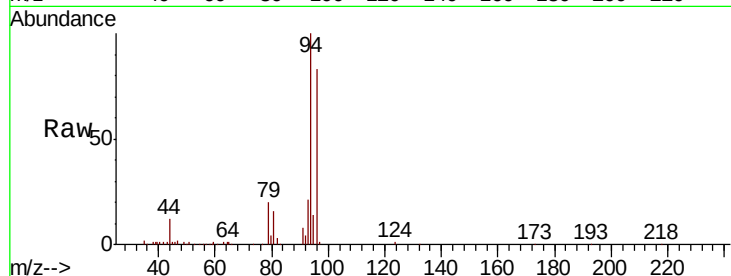
Tot Ion: 94 Resp: 185776

Ion Ratio Lower Upper

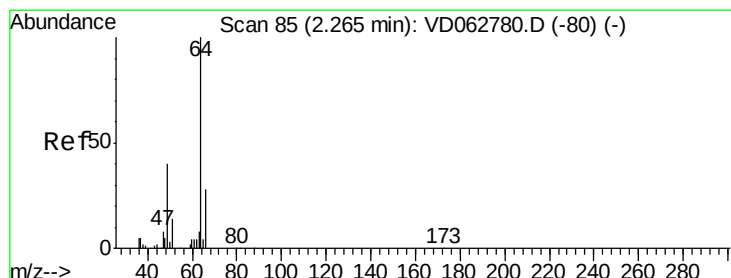
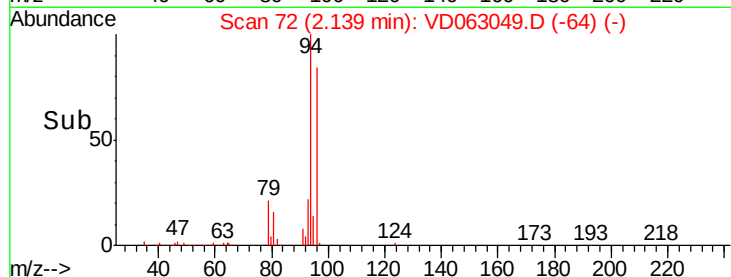
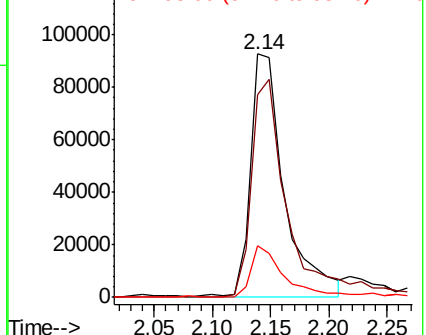
94 100

96 83.2 73.4 110.2

93 21.3 18.2 27.4



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: 53.285 ug/l

RT: 2.26 min Scan# 84

Delta R.T. -0.01 min

Lab File: VD063049.D

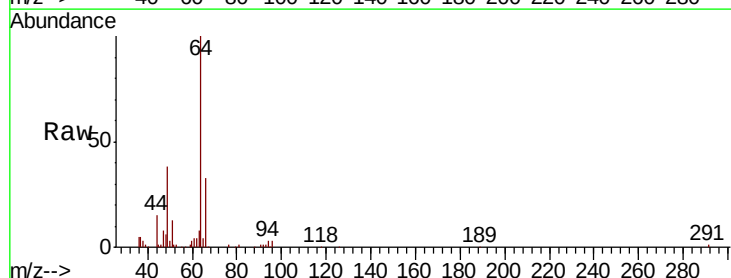
Acq: 8 Jul 2019 21:02

Tgt Ion: 64 Resp: 176259

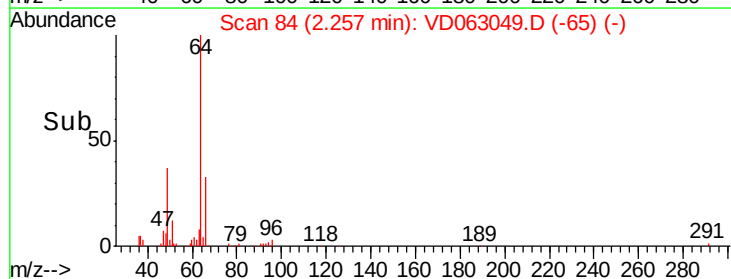
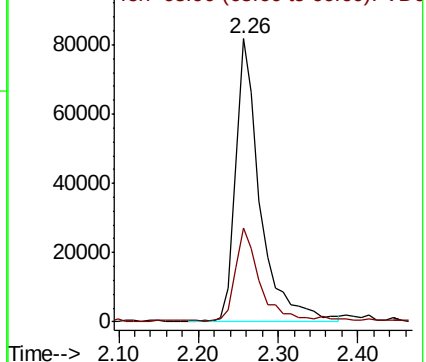
Ion Ratio Lower Upper

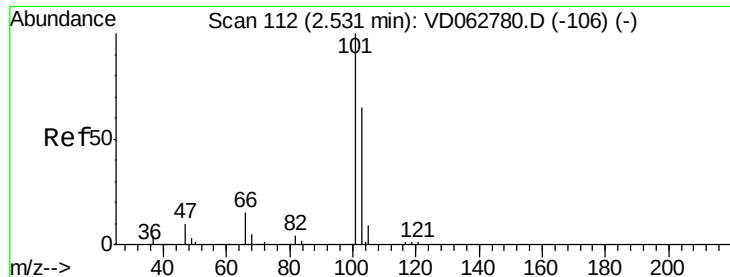
64 100

66 33.2 23.0 34.4



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



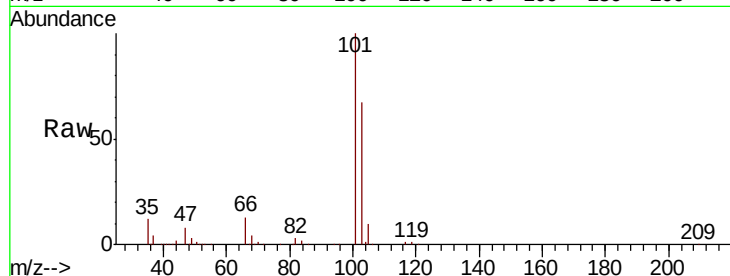


#7

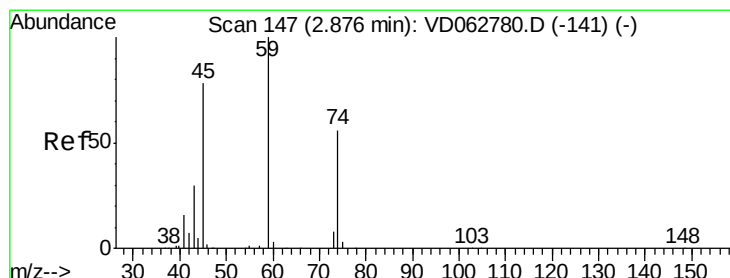
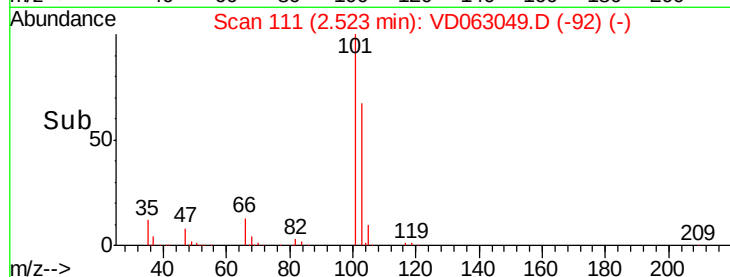
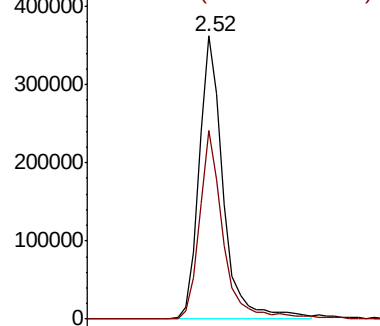
Trichlorofluoromethane
Concen: 52.273 ug/l
RT: 2.52 min Scan# 111
Delta R.T. -0.01 min
Lab File: VD063049.D
Acq: 8 Jul 2019 21:02

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Tot Ion:101 Resp: 772940
Ion Ratio Lower Upper
101 100
103 66.8 51.8 77.8



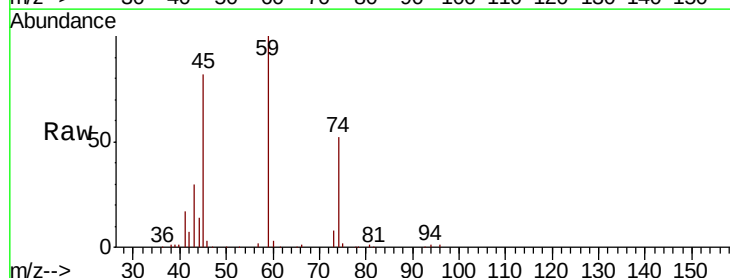
Abundance Ion 100.85 (100.55 to 101.55): V
Ion 102.85 (102.55 to 103.55): V



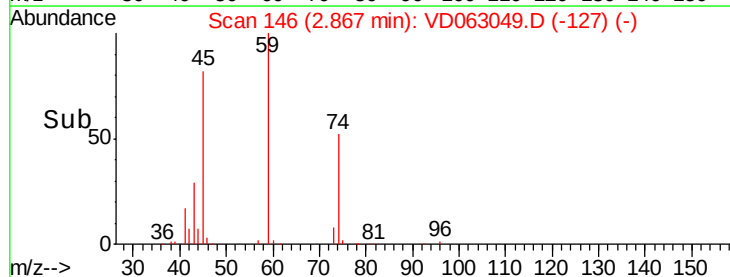
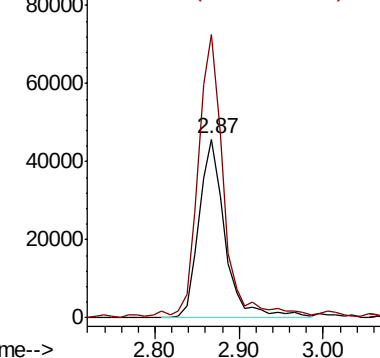
#8

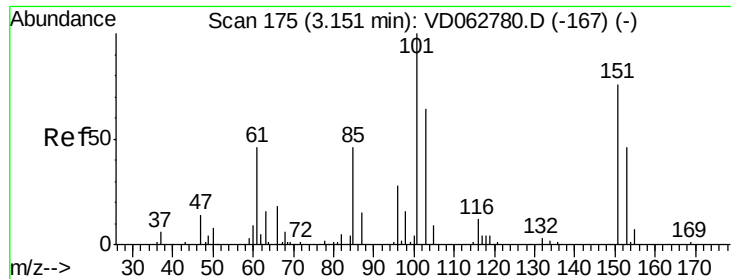
Diethyl Ether
Concen: 52.459 ug/l
RT: 2.87 min Scan# 146
Delta R.T. -0.01 min
Lab File: VD063049.D
Acq: 8 Jul 2019 21:02

Tgt Ion: 74 Resp: 98557
Ion Ratio Lower Upper
74 100
45 158.2 70.2 210.6



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: 49.426 ug/l

RT: 3.13 min Scan# 173

Delta R.T. -0.02 min

Lab File: VD063049.D

Acq: 8 Jul 2019 21:02

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

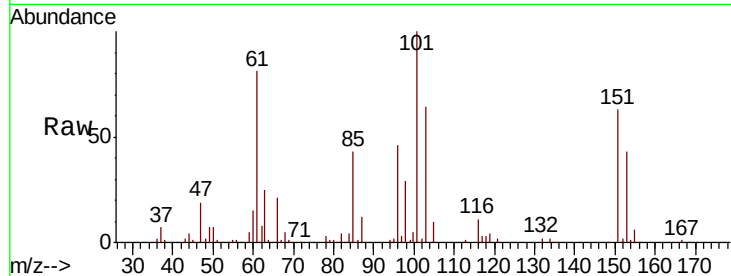
Tot Ion:101 Resp: 395934

Ion Ratio Lower Upper

101 100

85 42.7 37.0 55.4

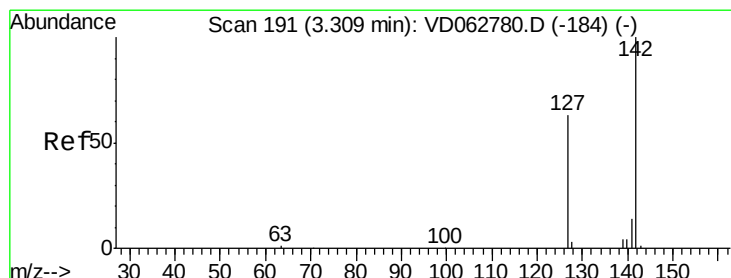
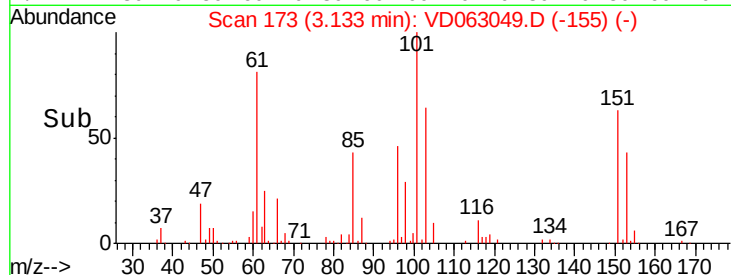
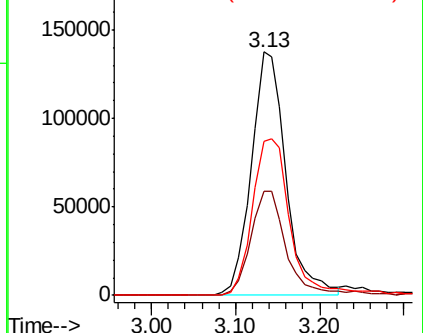
151 63.1 60.5 90.7



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: 52.443 ug/l

RT: 3.29 min Scan# 189

Delta R.T. -0.02 min

Lab File: VD063049.D

Acq: 8 Jul 2019 21:02

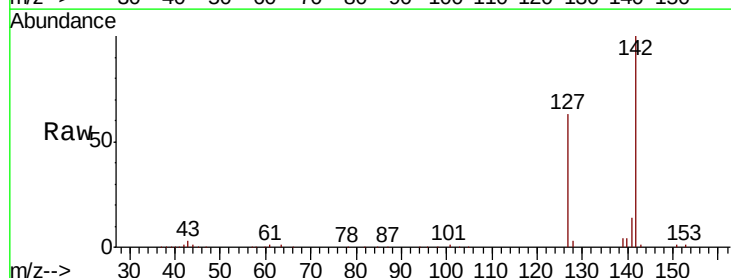
Tgt Ion:142 Resp: 554236

Ion Ratio Lower Upper

142 100

127 63.0 50.1 75.1

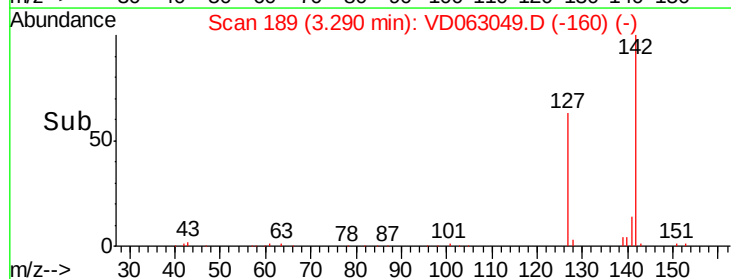
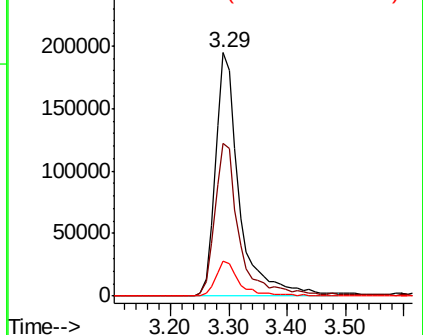
141 14.3 11.0 16.4

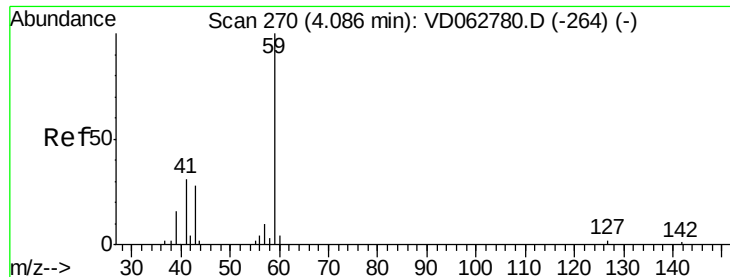


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

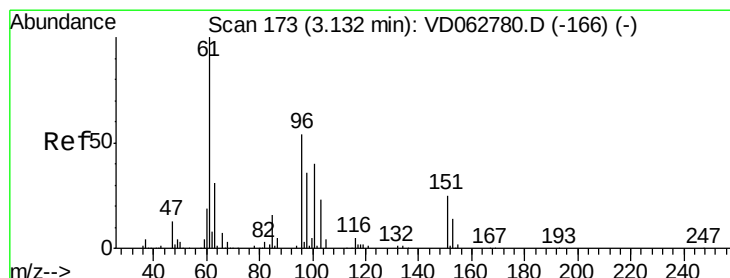
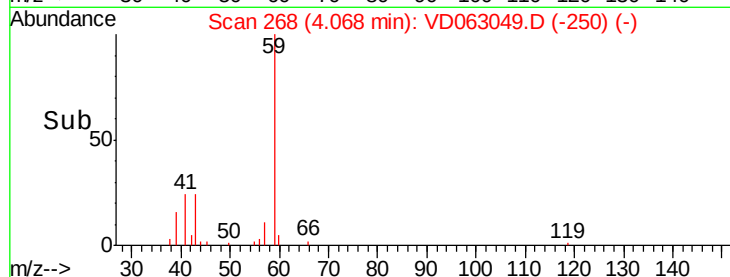
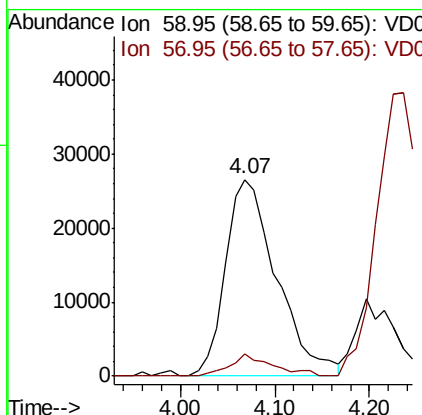
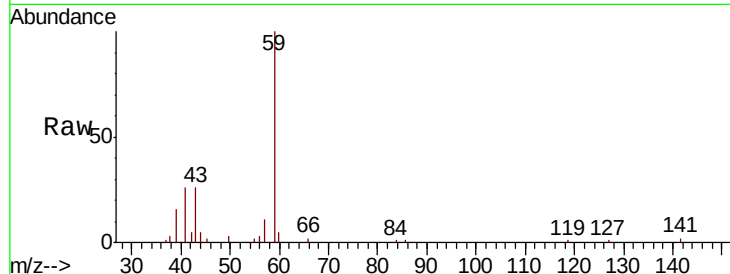




#11
Tert butyl alcohol
Concen: 265.309 ug/l
RT: 4.07 min Scan# 268
Delta R.T. -0.02 min
Lab File: VD063049.D
Acq: 8 Jul 2019 21:02

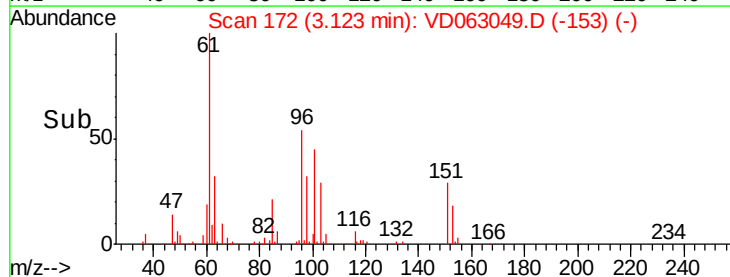
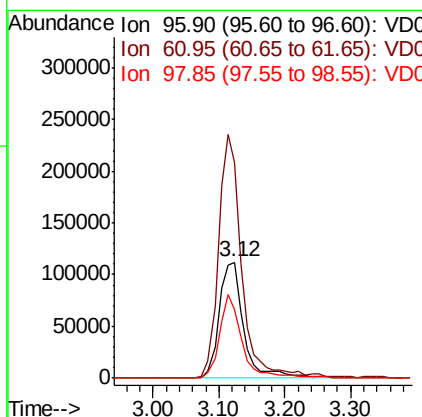
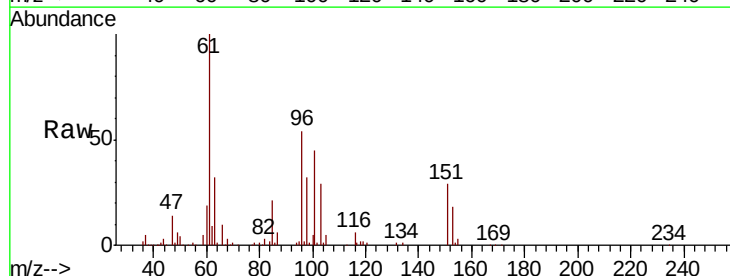
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

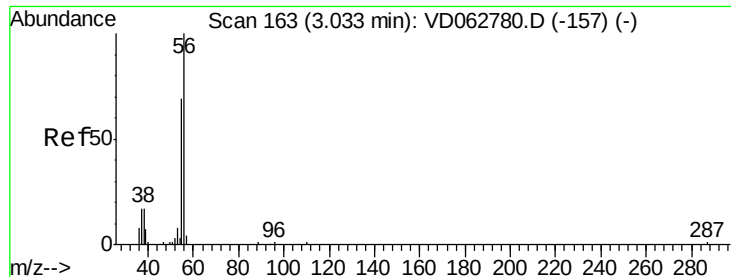
Tot Ion: 59 Resp: 99454
Ion Ratio Lower Upper
59 100
57 11.4 6.6 10.0#



#12
1,1-Dichloroethene
Concen: 48.609 ug/l
RT: 3.12 min Scan# 172
Delta R.T. -0.01 min
Lab File: VD063049.D
Acq: 8 Jul 2019 21:02

Tgt Ion: 96 Resp: 292112
Ion Ratio Lower Upper
96 100
61 185.9 147.1 220.7
98 59.0 52.6 79.0





#13

Acrolein

Concen: 163.707 ug/l

RT: 3.02 min Scan# 162

Delta R.T. -0.01 min

Lab File: VD063049.D

Acq: 8 Jul 2019 21:02

Instrument :

MSVOA_D

ClientSampleId :

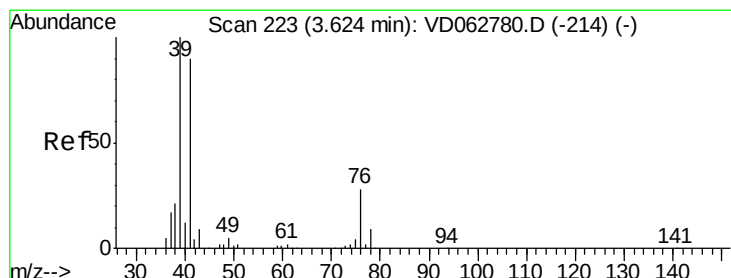
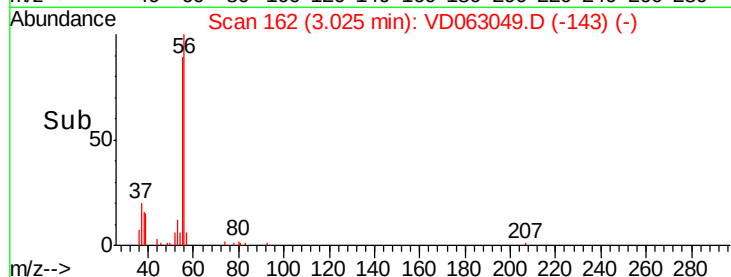
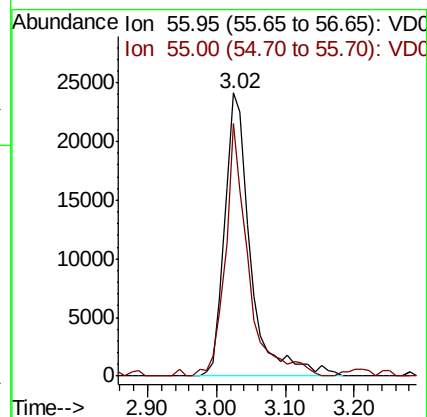
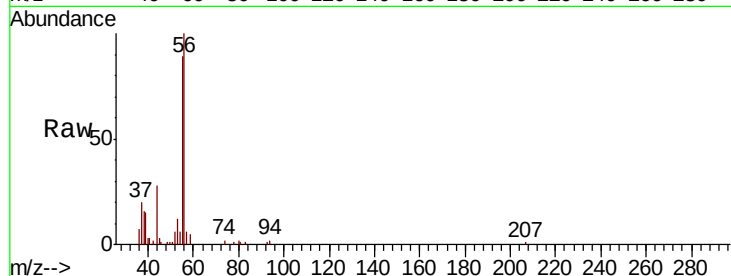
VSTDCCC050EC

Tot Ion: 56 Resp: 62649

Ion Ratio Lower Upper

56 100

55 89.4 55.4 83.0#



#14

Allyl chloride

Concen: 50.583 ug/l

RT: 3.61 min Scan# 221

Delta R.T. -0.02 min

Lab File: VD063049.D

Acq: 8 Jul 2019 21:02

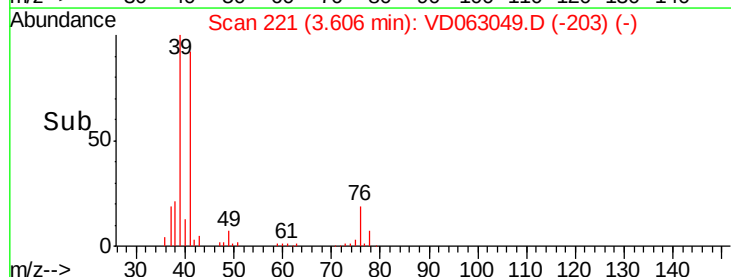
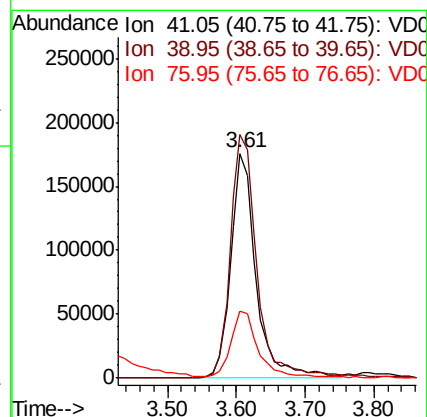
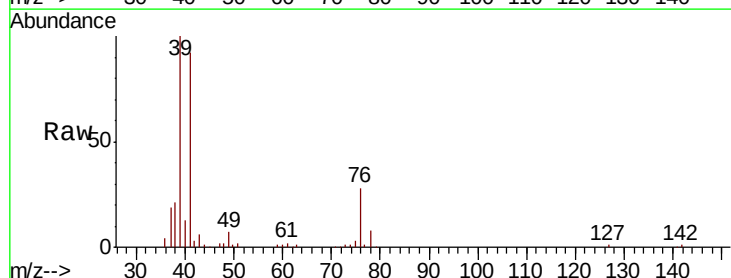
Tgt Ion: 41 Resp: 449146

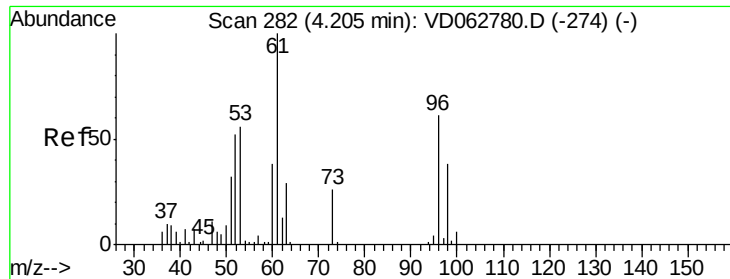
Ion Ratio Lower Upper

41 100

39 108.5 88.8 133.2

76 30.0 26.7 40.1





#15

Acrylonitrile

Concen: 279.141 ug/l

RT: 4.19 min Scan# 280

Delta R.T. -0.02 min

Lab File: VD063049.D

Acq: 8 Jul 2019 21:02

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

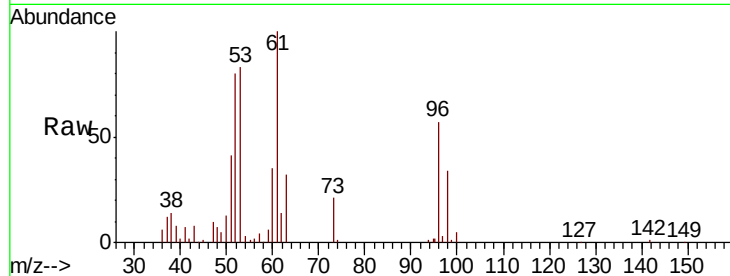
Tot Ion: 53 Resp: 245874

Ion Ratio Lower Upper

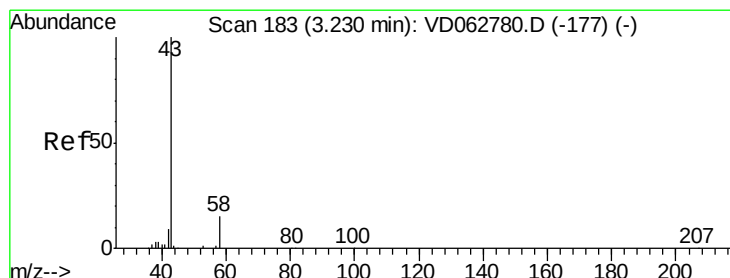
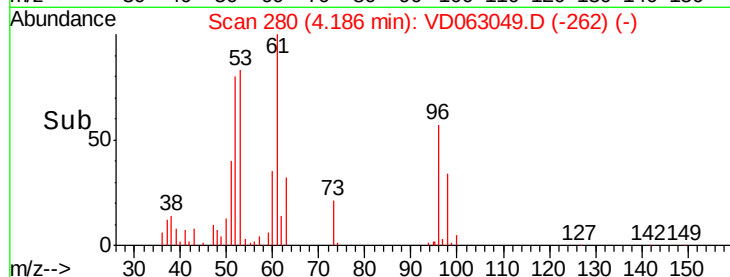
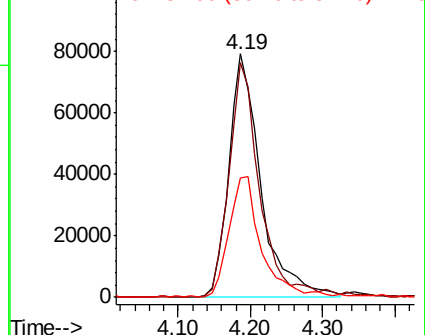
53 100

52 96.3 73.3 109.9

51 49.0 44.8 67.2



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: 241.255 ug/l

RT: 3.22 min Scan# 182

Delta R.T. -0.01 min

Lab File: VD063049.D

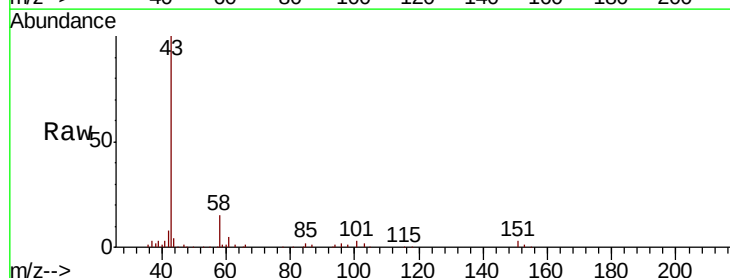
Acq: 8 Jul 2019 21:02

Tgt Ion: 43 Resp: 403087

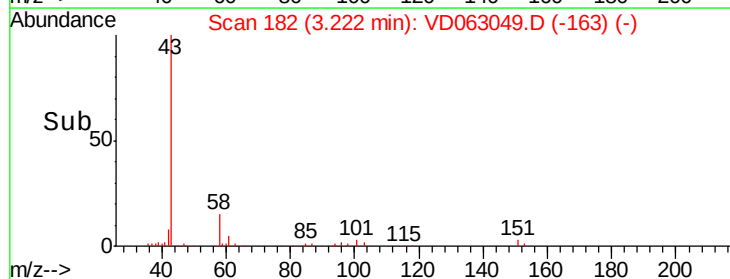
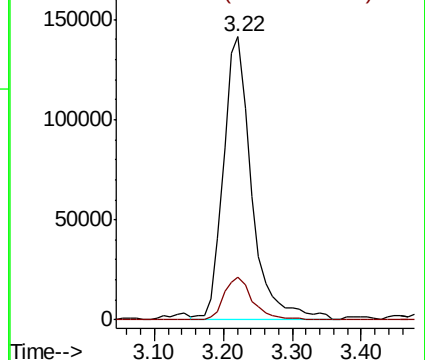
Ion Ratio Lower Upper

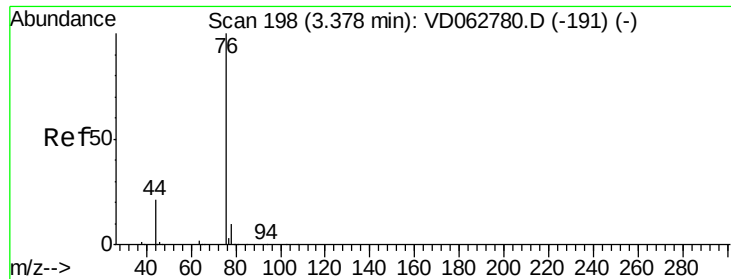
43 100

58 15.1 11.9 17.9



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





#17

Carbon Disulfide

Concen: 44.905 ug/l

RT: 3.36 min Scan# 196

Delta R.T. -0.02 min

Lab File: VD063049.D

Acq: 8 Jul 2019 21:02

Instrument :

MSVOA_D

ClientSampleId :

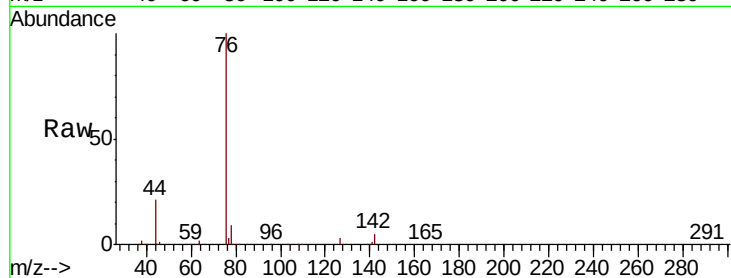
VSTDCCC050EC

Tot Ion: 76 Resp: 862436

Ion Ratio Lower Upper

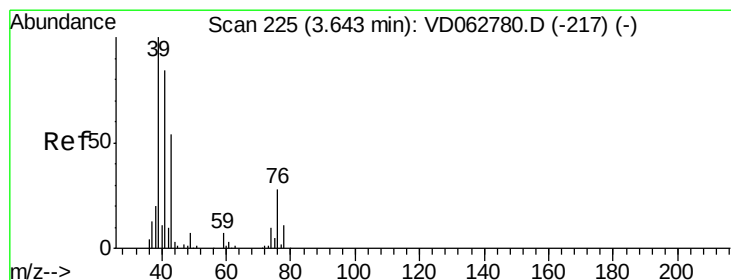
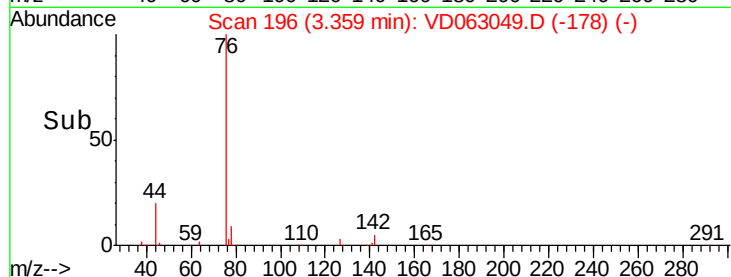
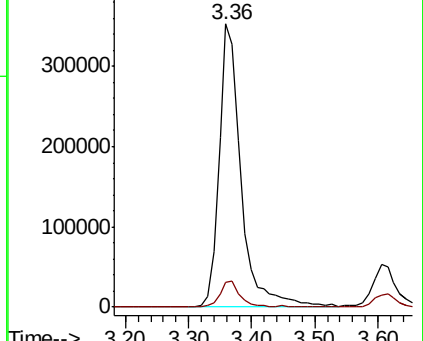
76 100

78 8.7 8.0 12.0



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 60.693 ug/l

RT: 3.64 min Scan# 224

Delta R.T. -0.01 min

Lab File: VD063049.D

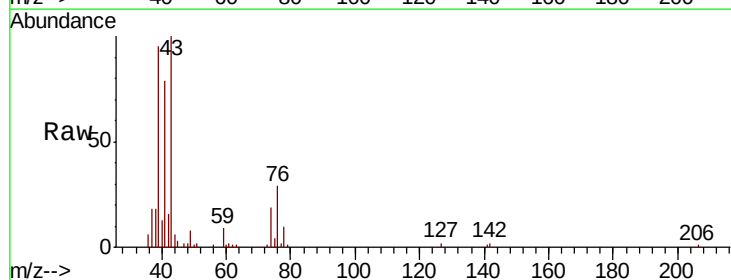
Acq: 8 Jul 2019 21:02

Tgt Ion: 43 Resp: 150800

Ion Ratio Lower Upper

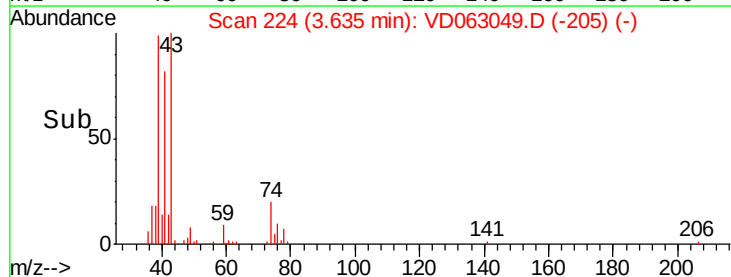
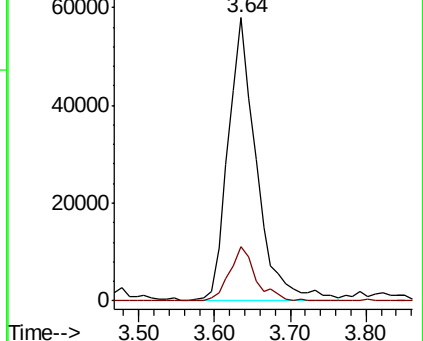
43 100

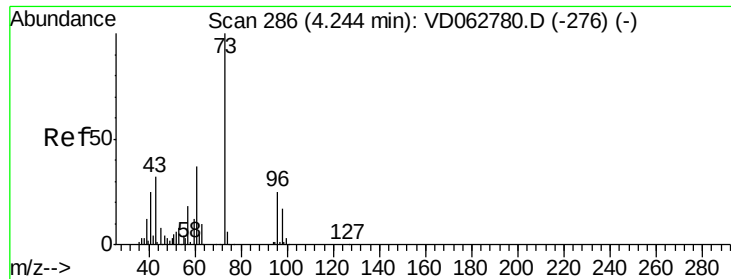
74 19.3 15.2 22.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

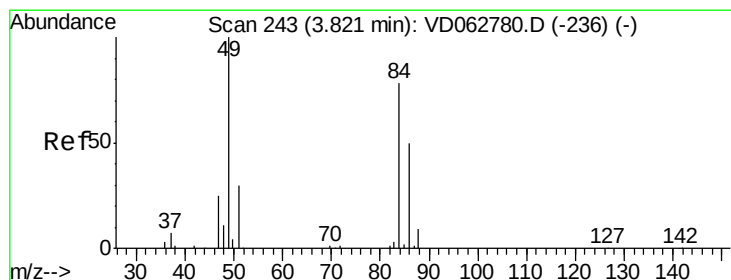
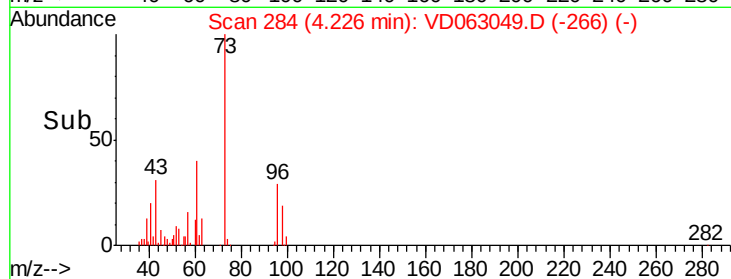
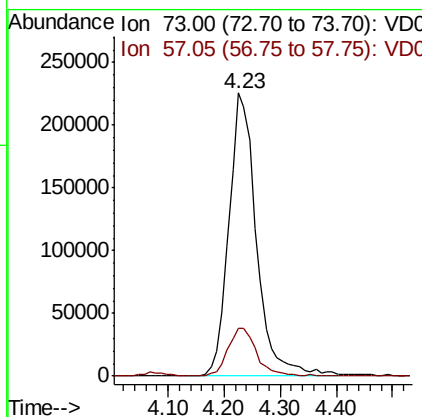
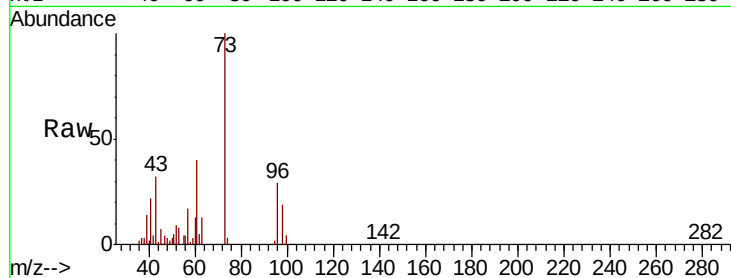




#19
Methyl tert-butyl Ether
Concen: 59.212 ug/l
RT: 4.23 min Scan# 284
Delta R.T. -0.02 min
Lab File: VD063049.D
Acq: 8 Jul 2019 21:02

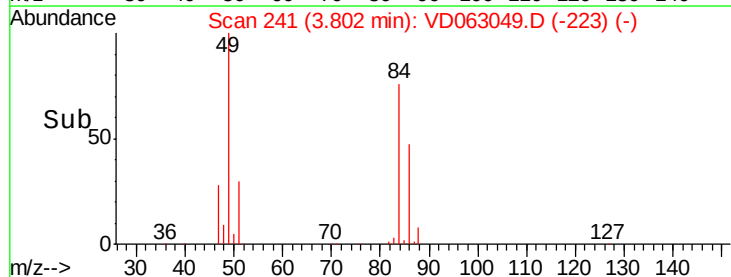
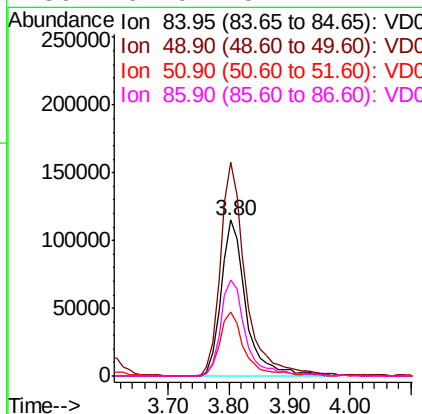
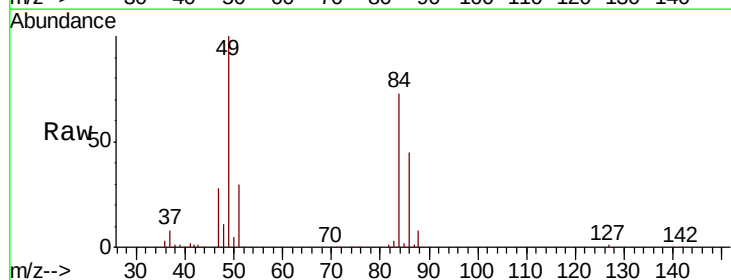
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

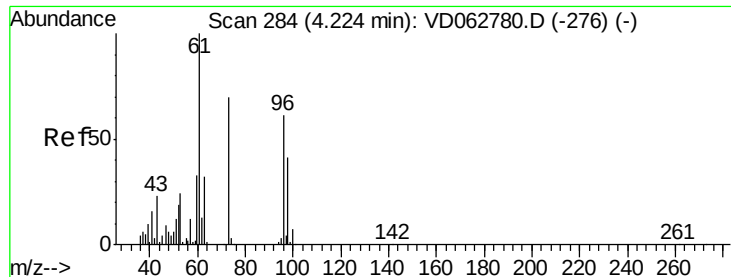
Tot Ion: 73 Resp: 770303
Ion Ratio Lower Upper
73 100
57 16.9 14.3 21.5



#20
Methylene Chloride
Concen: 52.141 ug/l
RT: 3.80 min Scan# 241
Delta R.T. -0.02 min
Lab File: VD063049.D
Acq: 8 Jul 2019 21:02

Tgt Ion: 84 Resp: 327290
Ion Ratio Lower Upper
84 100
49 137.3 102.9 154.3
51 41.2 31.2 46.8
86 62.0 51.4 77.2





#21

trans-1,2-Dichloroethene

Concen: 50.707 ug/l

RT: 4.21 min Scan# 282

Delta R.T. -0.02 min

Lab File: VD063049.D

Acq: 8 Jul 2019 21:02

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

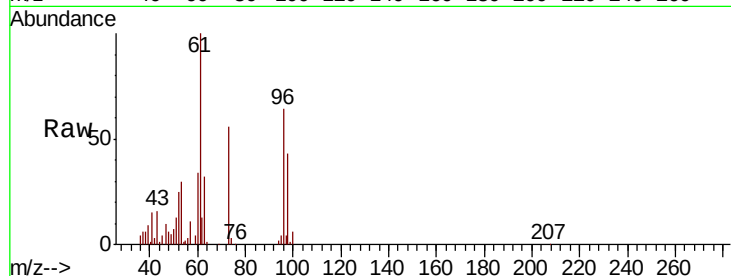
Tot Ion: 96 Resp: 324455

Ion Ratio Lower Upper

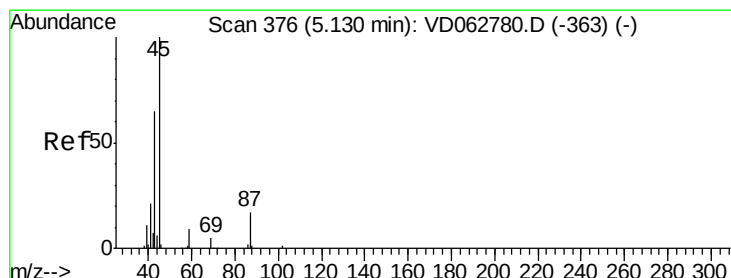
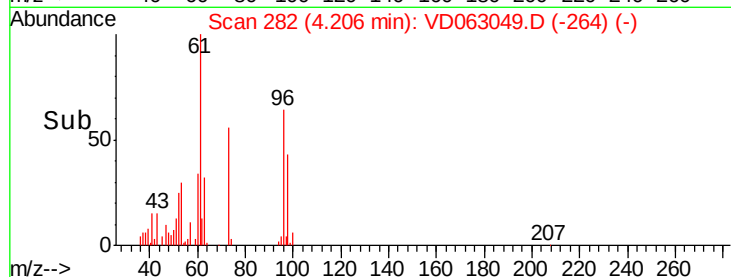
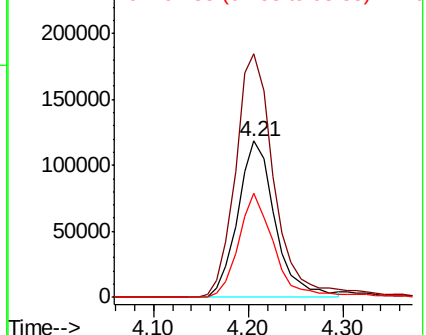
96 100

61 156.1 131.0 196.4

98 66.5 53.2 79.8



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



#22

Diisopropyl ether

Concen: 55.602 ug/l

RT: 5.11 min Scan# 374

Delta R.T. -0.02 min

Lab File: VD063049.D

Acq: 8 Jul 2019 21:02

Tgt Ion: 45 Resp: 1004045

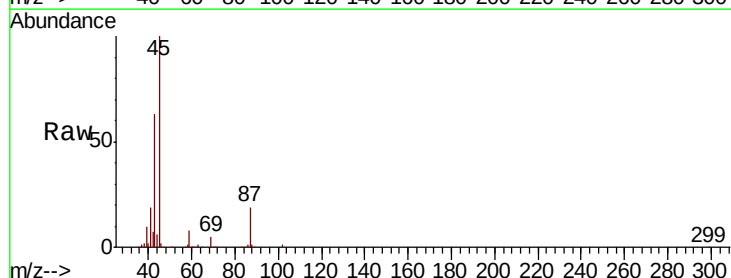
Ion Ratio Lower Upper

45 100

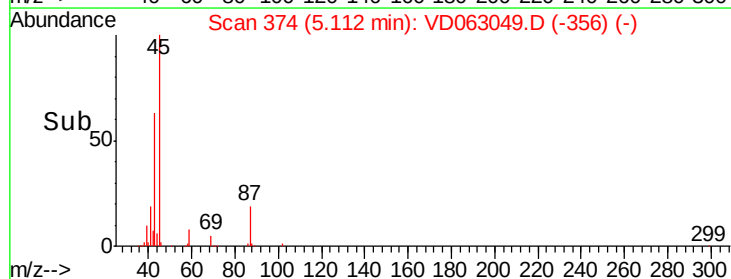
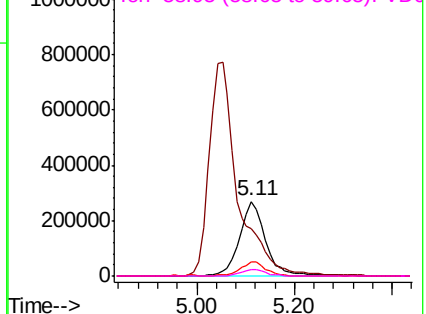
43 63.2 53.4 80.0

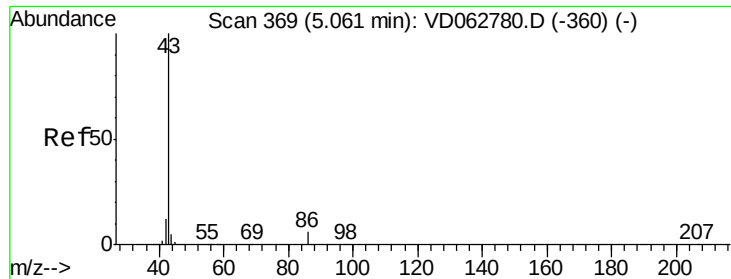
87 19.3 14.6 22.0

59 8.1 7.8 11.8



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: 276.109 ug/l

RT: 5.05 min Scan# 368

Delta R.T. -0.01 min

Lab File: VD063049.D

Acq: 8 Jul 2019 21:02

Instrument :

MSVOA_D

ClientSampleId :

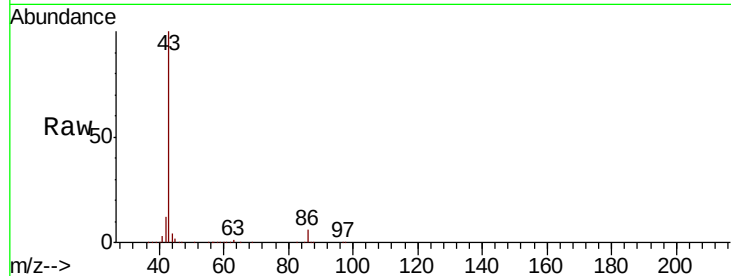
VSTDCCC050EC

Tot Ion: 43 Resp: 3119918

Ion Ratio Lower Upper

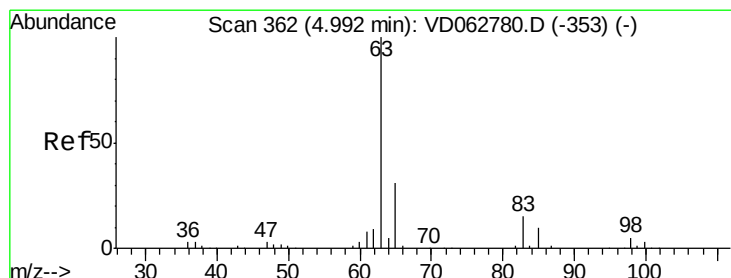
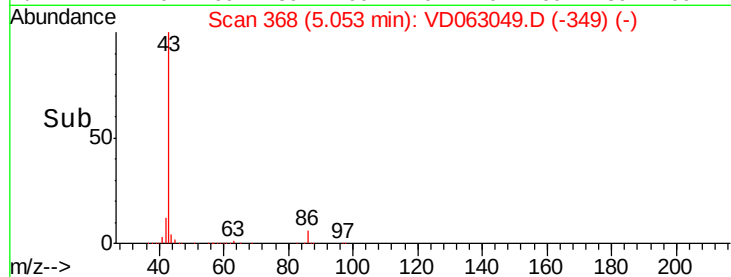
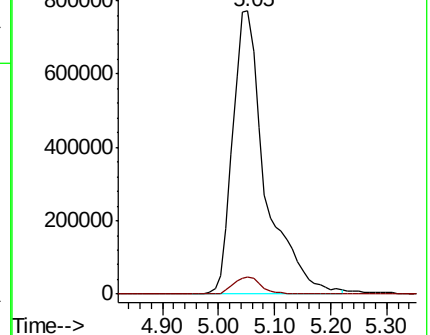
43 100

86 6.3 4.7 7.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 50.221 ug/l

RT: 4.97 min Scan# 360

Delta R.T. -0.02 min

Lab File: VD063049.D

Acq: 8 Jul 2019 21:02

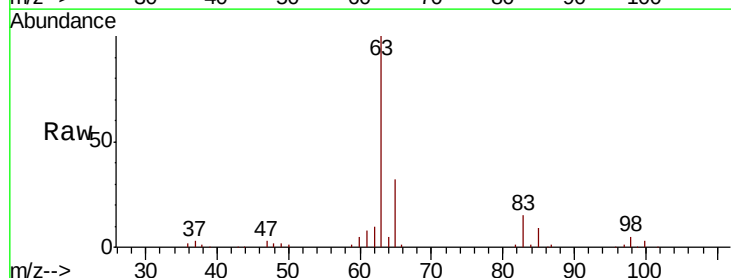
Tgt Ion: 63 Resp: 590449

Ion Ratio Lower Upper

63 100

98 4.6 2.3 6.9

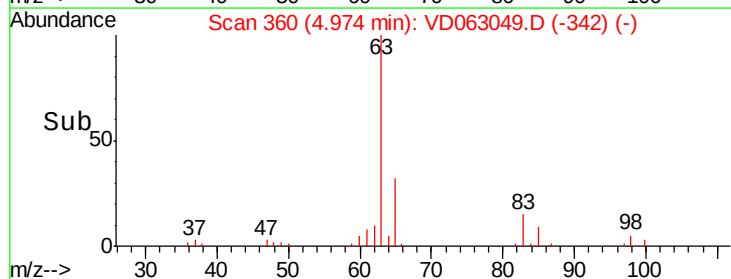
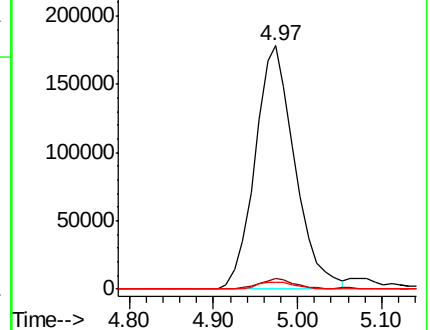
100 2.6 1.7 5.1

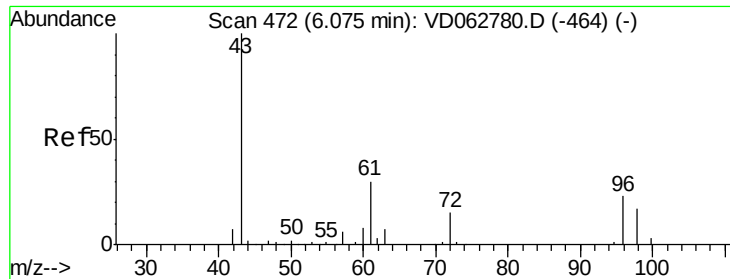


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 288.430 ug/l

RT: 6.07 min Scan# 471

Delta R.T. -0.01 min

Lab File: VD063049.D

Acq: 8 Jul 2019 21:02

Instrument :

MSVOA_D

ClientSampleId :

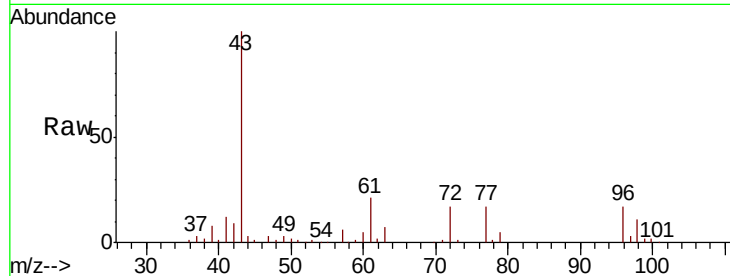
VSTDCCC050EC

Tot Ion: 43 Resp: 444003

Ion Ratio Lower Upper

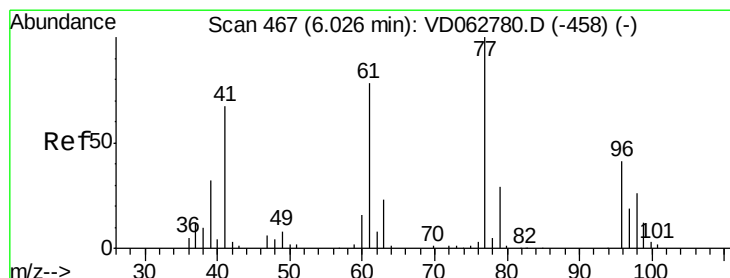
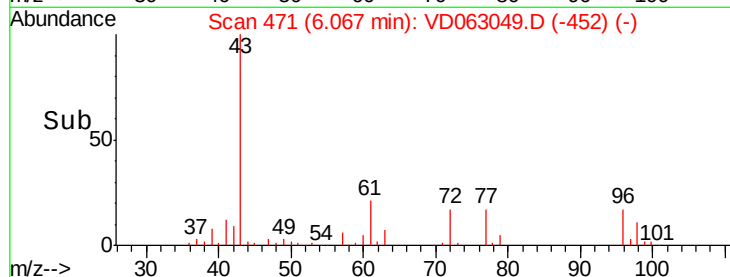
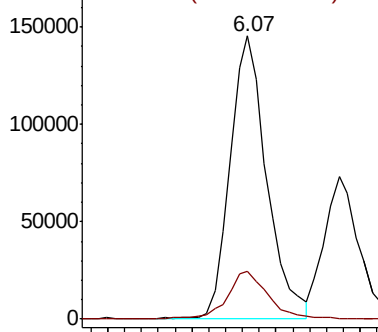
43 100

72 16.9 11.9 17.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 53.250 ug/l

RT: 6.01 min Scan# 465

Delta R.T. -0.02 min

Lab File: VD063049.D

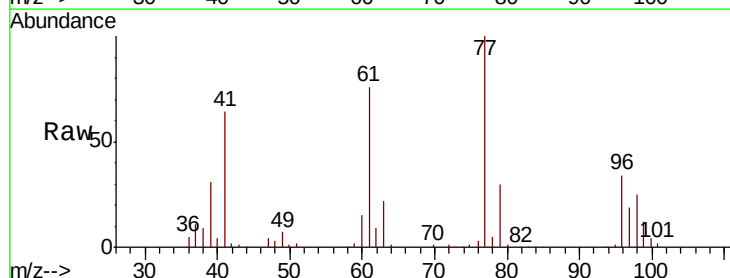
Acq: 8 Jul 2019 21:02

Tgt Ion: 77 Resp: 663594

Ion Ratio Lower Upper

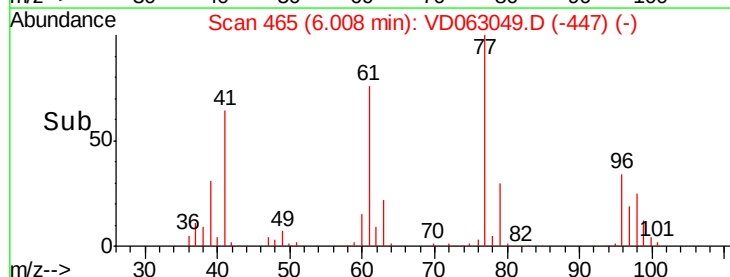
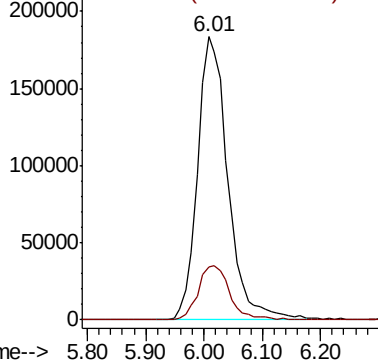
77 100

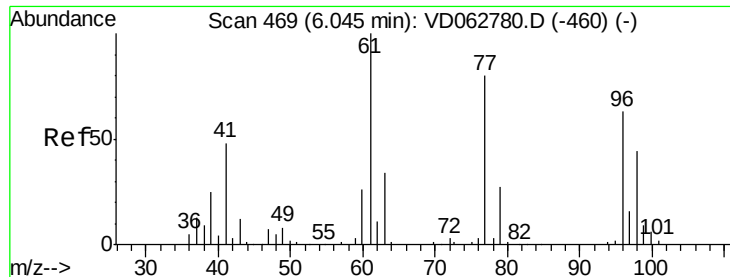
97 18.5 9.5 28.5



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



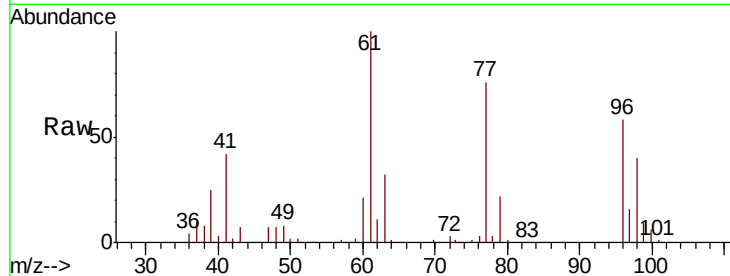


#27

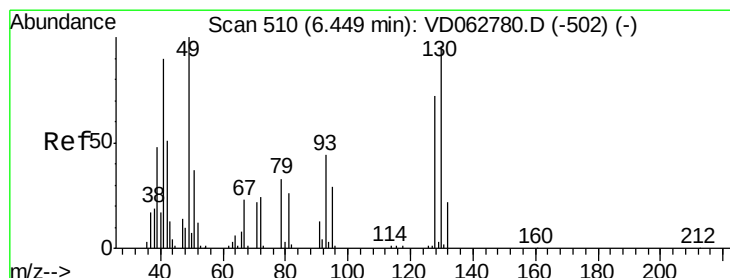
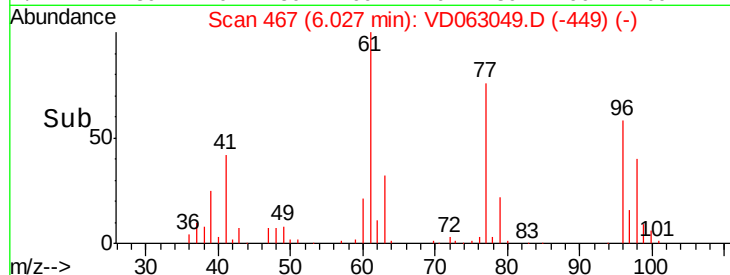
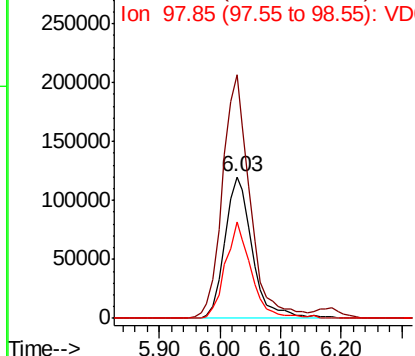
cis-1,2-Dichloroethene
Concen: 55.764 ug/l
RT: 6.03 min Scan# 467
Delta R.T. -0.02 min
Lab File: VD063049.D
Acq: 8 Jul 2019 21:02

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion: 96 Resp: 377327
Ion Ratio Lower Upper
96 100
61 172.1 0.0 316.0
98 68.0 0.0 138.4



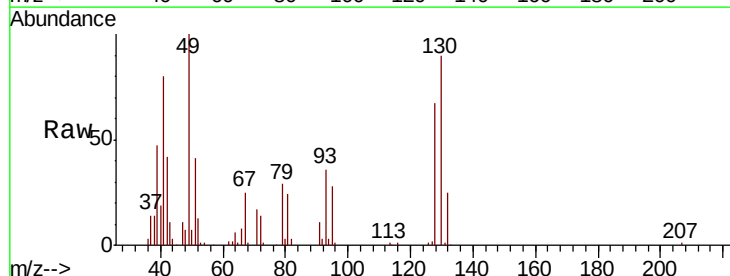
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



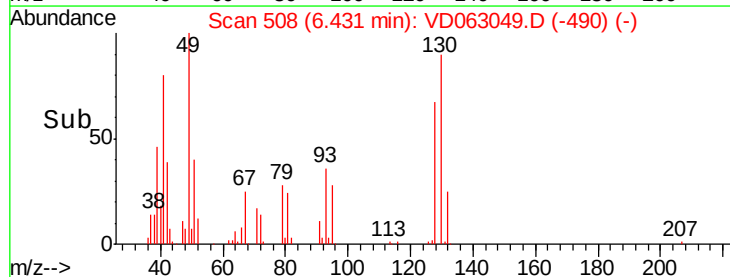
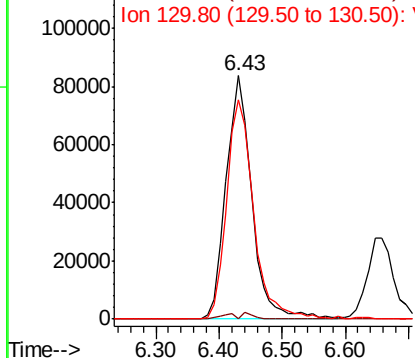
#28

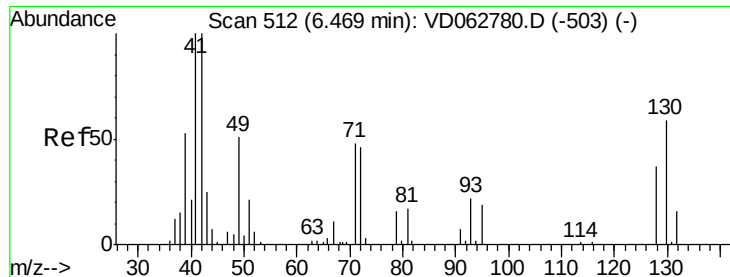
Bromochloromethane
Concen: 57.316 ug/l
RT: 6.43 min Scan# 508
Delta R.T. -0.02 min
Lab File: VD063049.D
Acq: 8 Jul 2019 21:02

Tgt Ion: 49 Resp: 237335
Ion Ratio Lower Upper
49 100
129 0.0 0.0 5.6
130 90.2 76.6 114.8



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





#29

Tetrahydrofuran

Concen: 284.662 ug/l

RT: 6.45 min Scan# 510

Delta R.T. -0.02 min

Lab File: VD063049.D

Acq: 8 Jul 2019 21:02

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

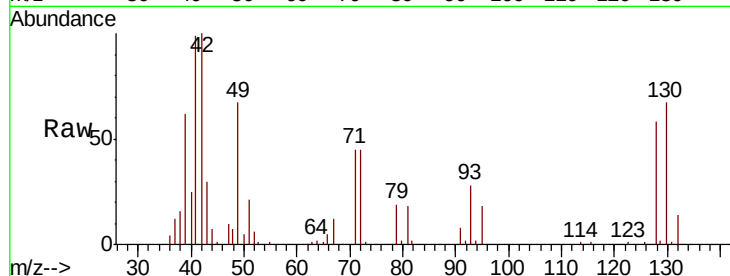
Tot Ion: 42 Resp: 207331

Ion Ratio Lower Upper

42 100

72 44.4 35.0 52.6

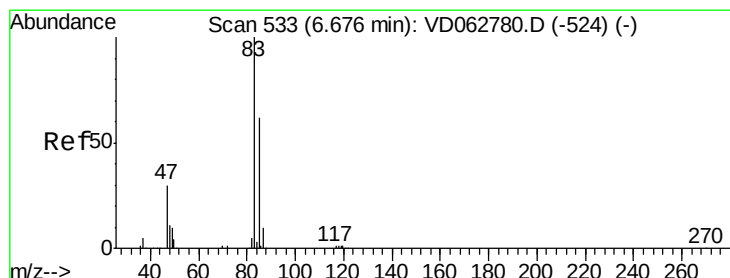
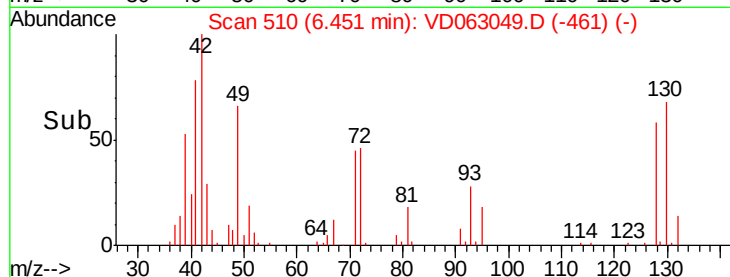
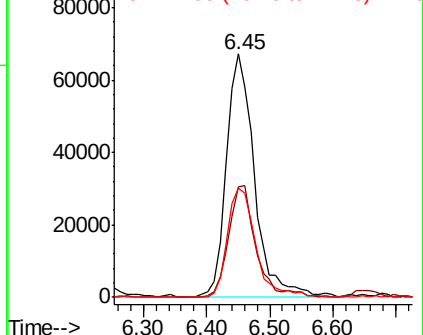
71 44.9 33.3 49.9



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: 56.815 ug/l

RT: 6.66 min Scan# 531

Delta R.T. -0.02 min

Lab File: VD063049.D

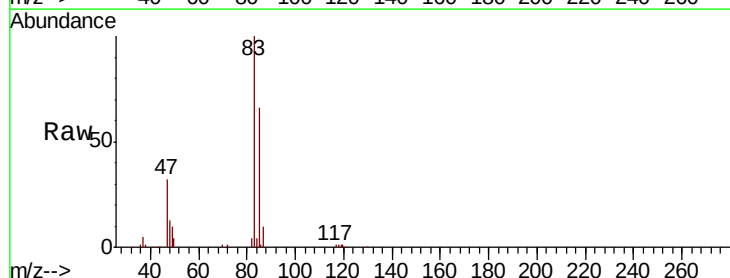
Acq: 8 Jul 2019 21:02

Tgt Ion: 83 Resp: 812368

Ion Ratio Lower Upper

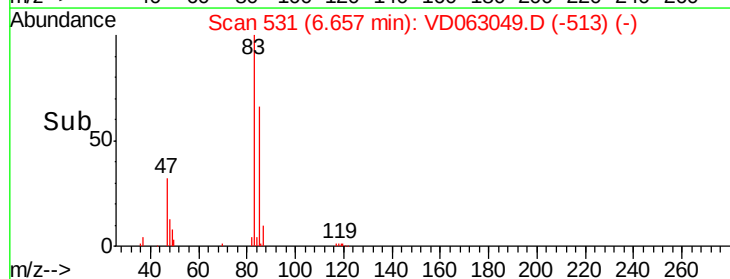
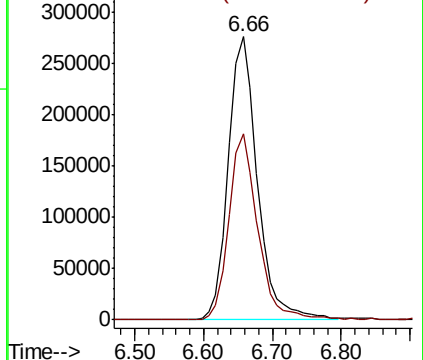
83 100

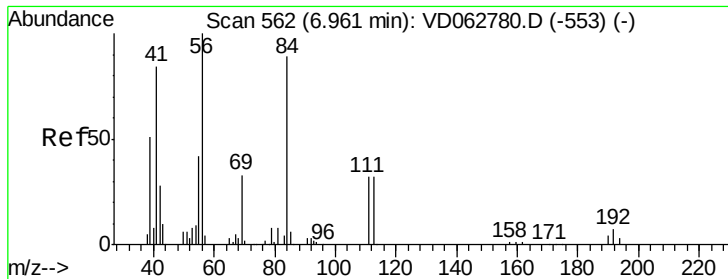
85 65.7 49.8 74.6



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

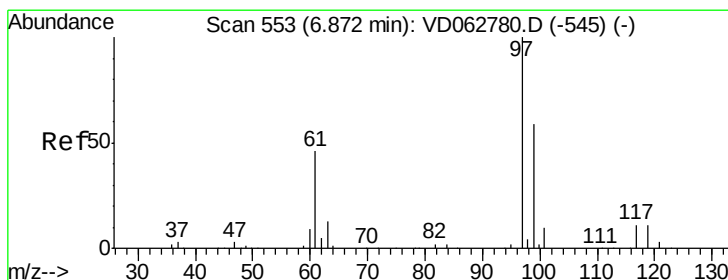
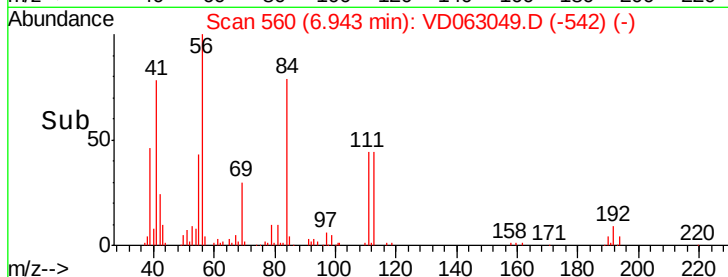
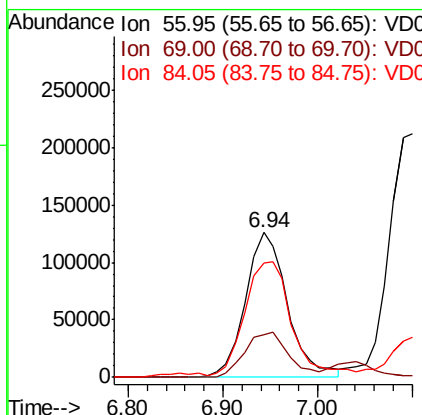
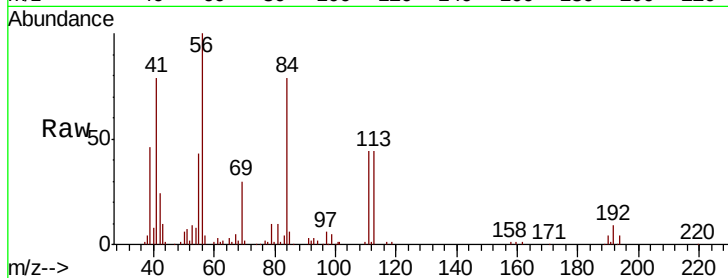




#31
Cyclohexane
Concen: 50.319 ug/l
RT: 6.94 min Scan# 560
Delta R.T. -0.02 min
Lab File: VD063049.D
Acq: 8 Jul 2019 21:02

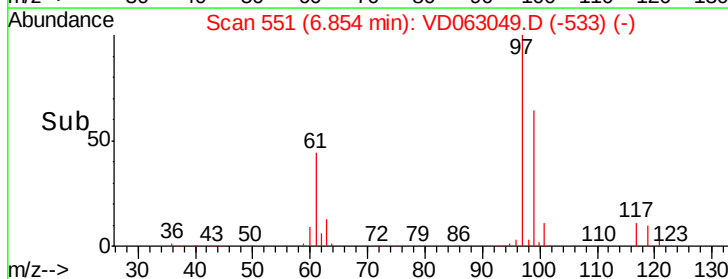
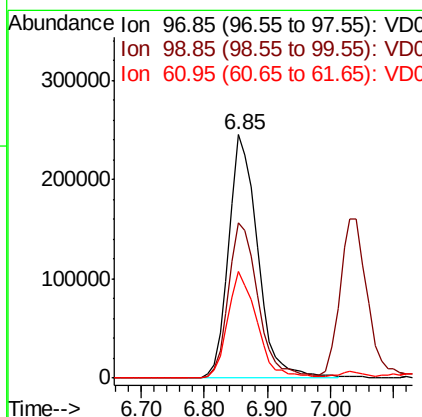
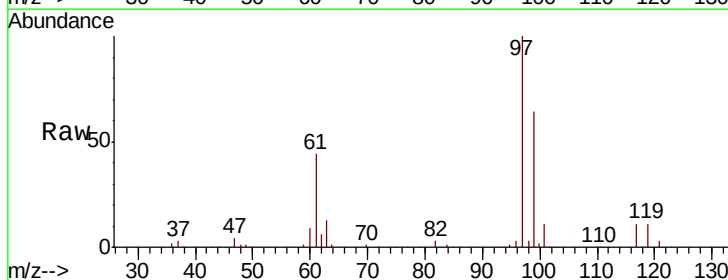
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

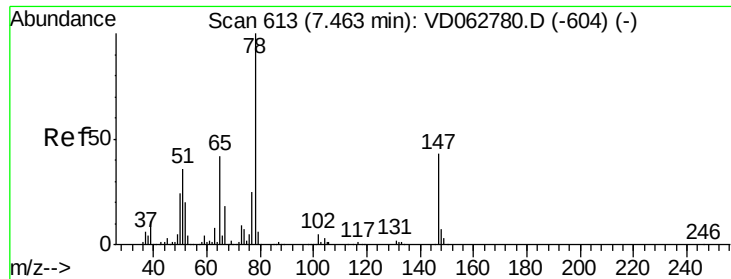
Tot Ion: 56 Resp: 388918
Ion Ratio Lower Upper
56 100
69 29.6 26.6 39.8
84 79.3 75.5 113.3



#32
1,1,1-Trichloroethane
Concen: 52.439 ug/l
RT: 6.85 min Scan# 551
Delta R.T. -0.02 min
Lab File: VD063049.D
Acq: 8 Jul 2019 21:02

Tgt Ion: 97 Resp: 780960
Ion Ratio Lower Upper
97 100
99 64.0 47.4 71.2
61 43.9 37.2 55.8

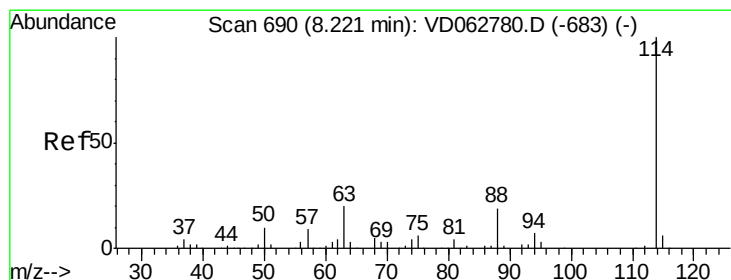
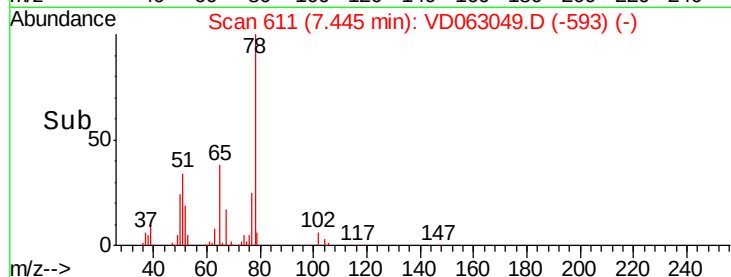
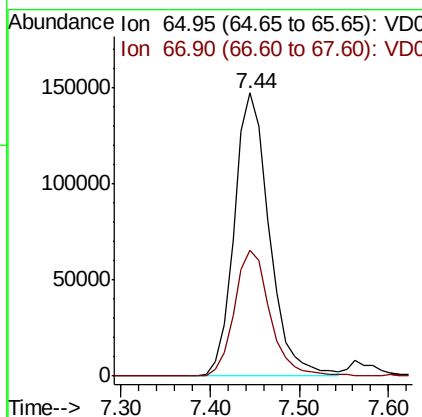
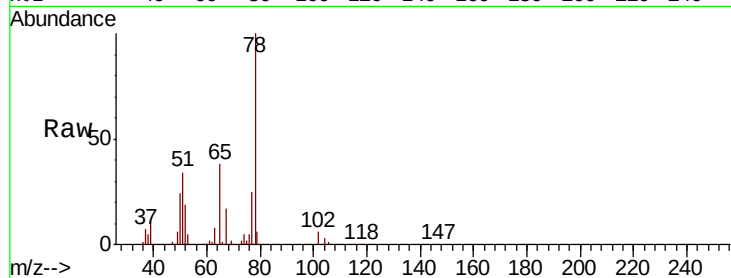




#33
 1,2-Dichloroethane-d4
 Concen: 49.010 ug/l
 RT: 7.44 min Scan# 611
 Delta R.T. -0.02 min
 Lab File: VD063049.D
 Acq: 8 Jul 2019 21:02

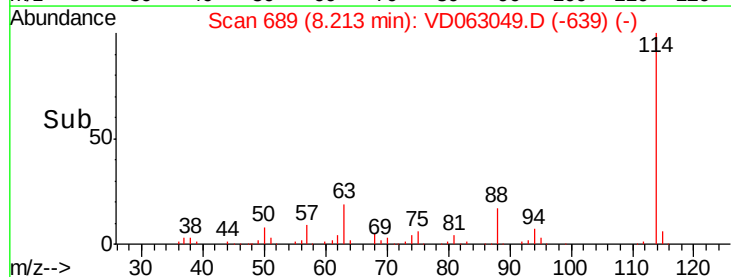
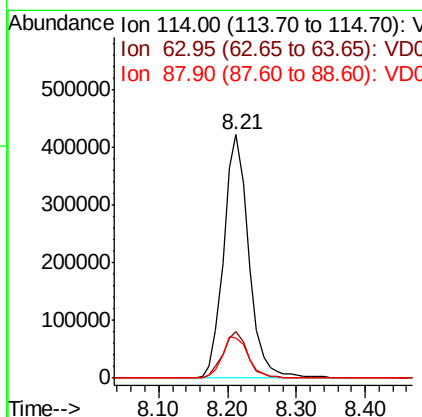
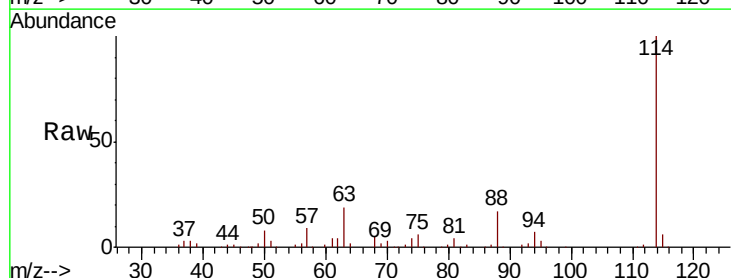
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

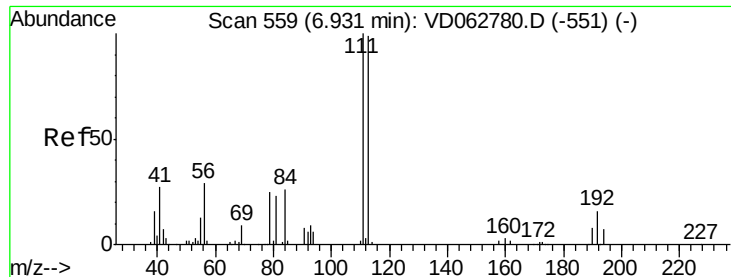
Tot Ion: 65 Resp: 403385
 Ion Ratio Lower Upper
 65 100
 67 44.3 0.0 87.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 689
 Delta R.T. -0.01 min
 Lab File: VD063049.D
 Acq: 8 Jul 2019 21:02

Tgt Ion: 114 Resp: 1061934
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 40.0
 88 16.7 0.0 38.8

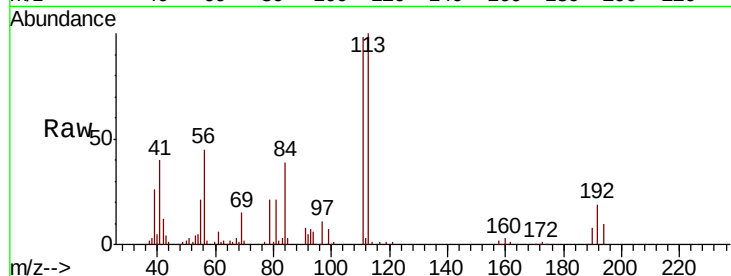




#35
 Dibromofluoromethane
 Concen: 47.194 ug/l
 RT: 6.92 min Scan# 558
 Delta R.T. -0.01 min
 Lab File: VD063049.D
 Acq: 8 Jul 2019 21:02

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
113	100		
111	98.1	81.2	121.8
192	18.6	12.9	19.3

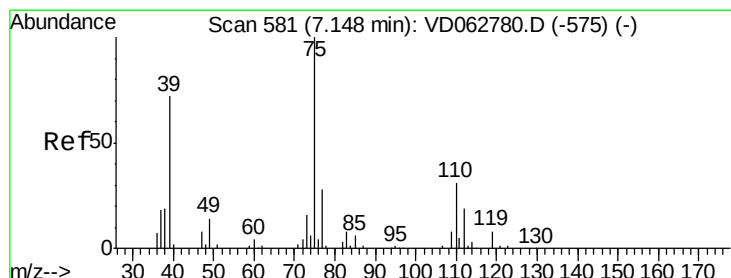
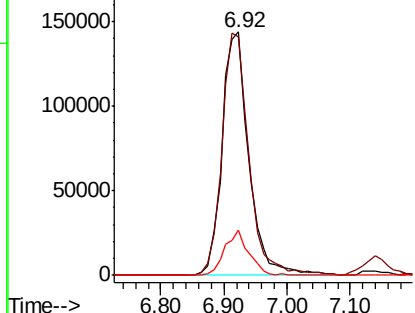
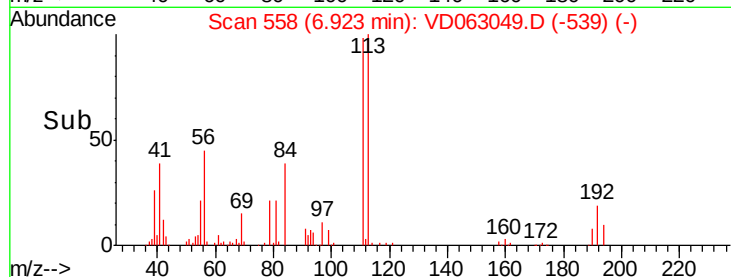


Abundance

Ion 112.90 (112.60 to 113.60): V

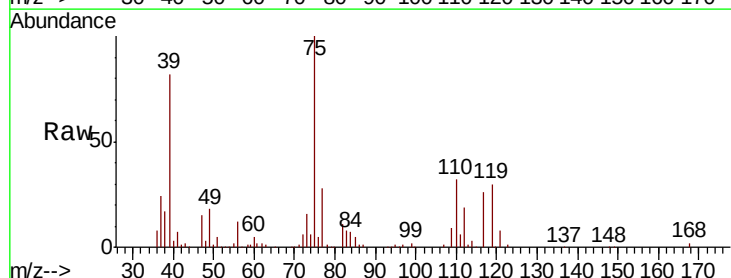
Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36
 1,1-Dichloropropene
 Concen: 52.375 ug/l
 RT: 7.14 min Scan# 580
 Delta R.T. -0.01 min
 Lab File: VD063049.D
 Acq: 8 Jul 2019 21:02

Tgt Ion	Ratio	Lower	Upper
75	100		
110	31.5	15.0	45.1
77	28.4	22.2	33.2

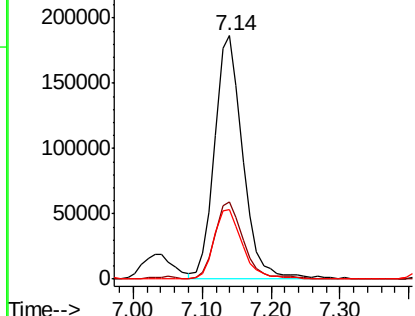
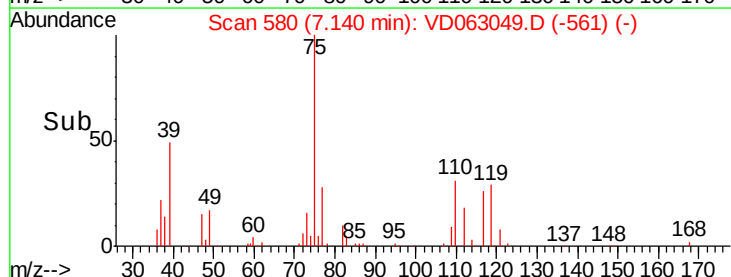


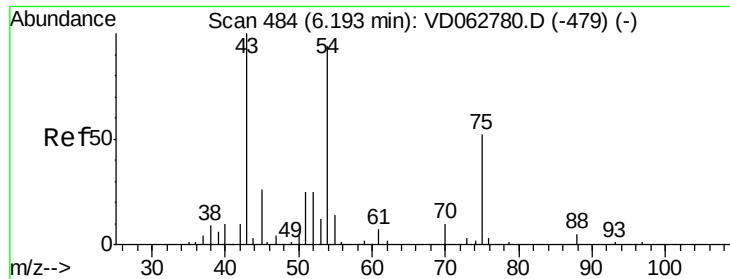
Abundance

Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

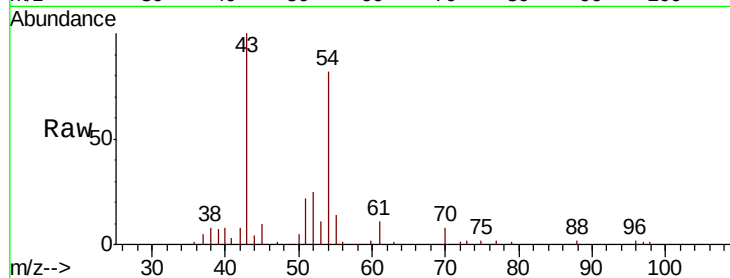




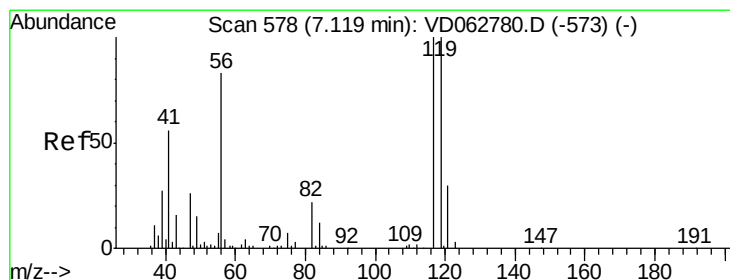
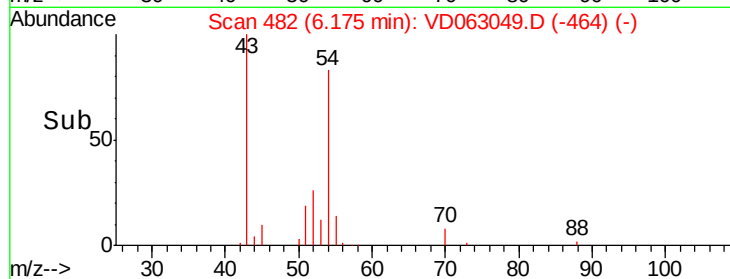
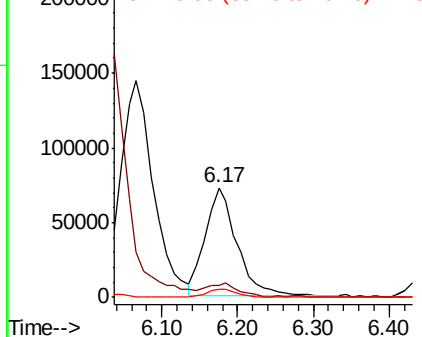
#37
Ethyl Acetate
Concen: 50.026 ug/l
RT: 6.17 min Scan# 482
Delta R.T. -0.02 min
Lab File: VD063049.D
Acq: 8 Jul 2019 21:02

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion: 43 Resp: 211252
Ion Ratio Lower Upper
43 100
61 11.4 11.6 17.4#
70 7.7 6.4 9.6

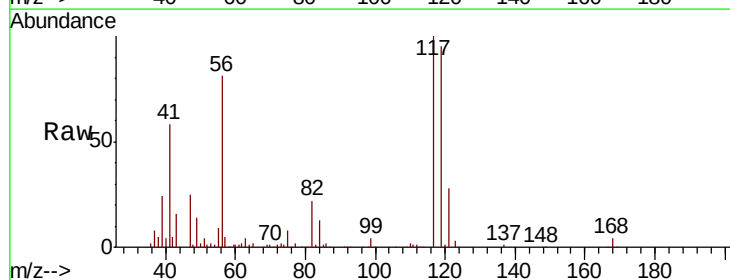


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

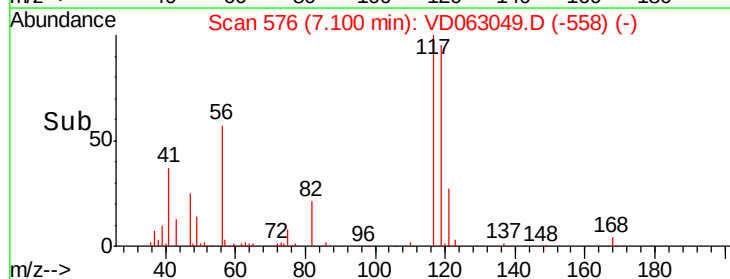
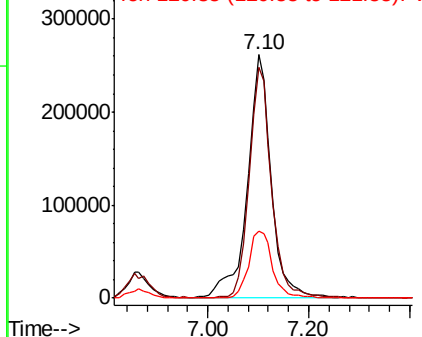


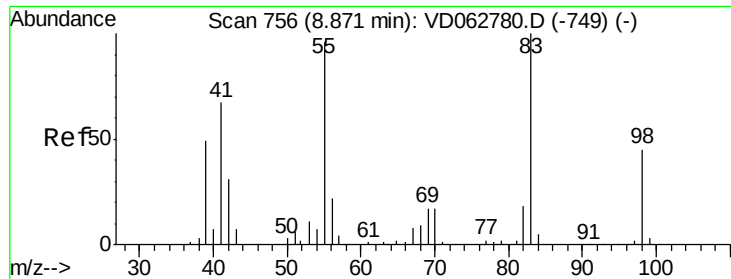
#38
Carbon Tetrachloride
Concen: 56.643 ug/l
RT: 7.10 min Scan# 576
Delta R.T. -0.02 min
Lab File: VD063049.D
Acq: 8 Jul 2019 21:02

Tgt Ion: 117 Resp: 856380
Ion Ratio Lower Upper
117 100
119 94.9 75.4 113.2
121 27.6 22.3 33.5



Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

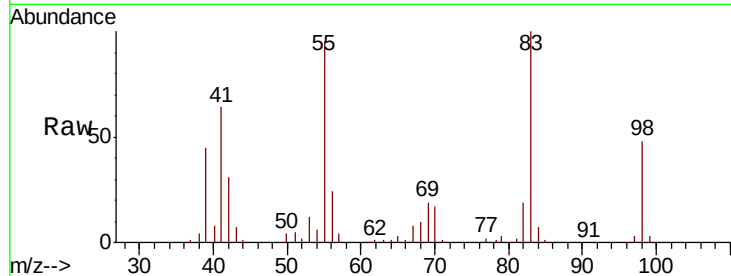




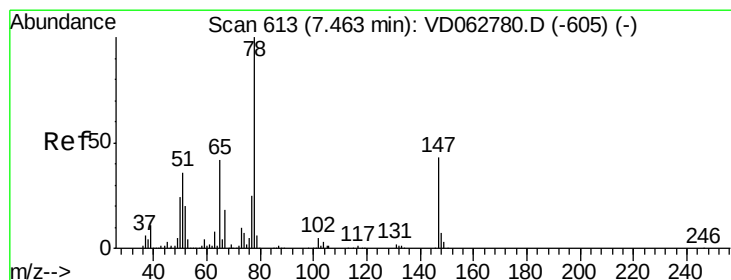
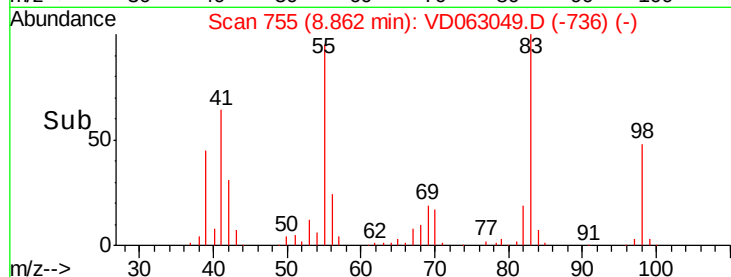
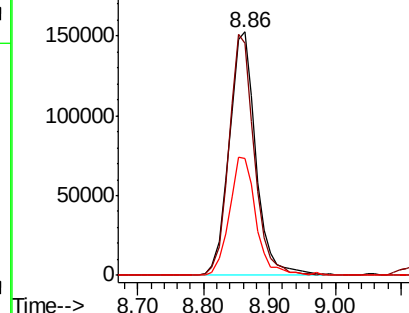
#39
Methylvlcyclohexane
Concen: 48.730 ug/l
RT: 8.86 min Scan# 755
Delta R.T. -0.01 min
Lab File: VD063049.D
Acq: 8 Jul 2019 21:02

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion: 83 Resp: 431202
Ion Ratio Lower Upper
83 100
55 95.1 76.6 115.0
98 47.9 35.7 53.5

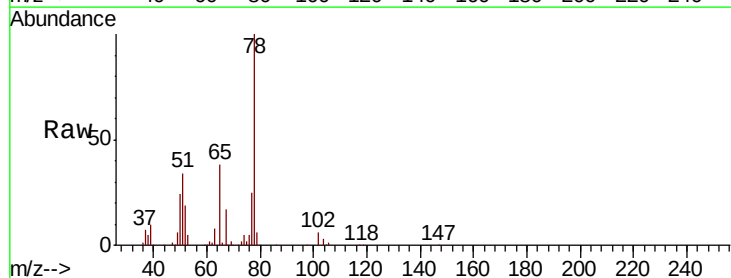


Abundance Ion 83.05 (82.75 to 83.75): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.05 (97.75 to 98.75): VDC

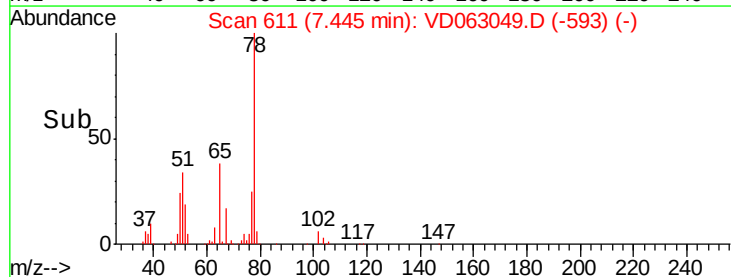
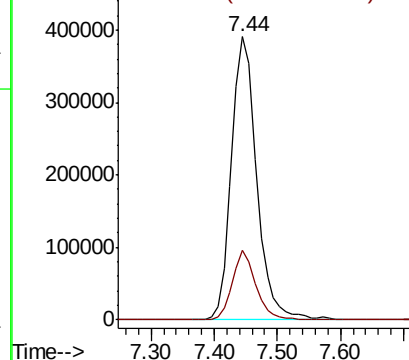


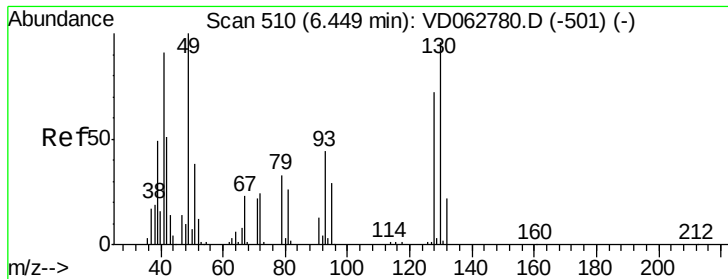
#40
Benzene
Concen: 53.551 ug/l
RT: 7.44 min Scan# 611
Delta R.T. -0.02 min
Lab File: VD063049.D
Acq: 8 Jul 2019 21:02

Tgt Ion: 78 Resp: 1080601
Ion Ratio Lower Upper
78 100
77 24.8 20.2 30.2



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





#41

Methacrylonitrile

Concen: 56.071 ug/l

RT: 6.44 min Scan# 509

Delta R.T. -0.01 min

Lab File: VD063049.D

Acq: 8 Jul 2019 21:02

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

Tot Ion: 41 Resp: 297256

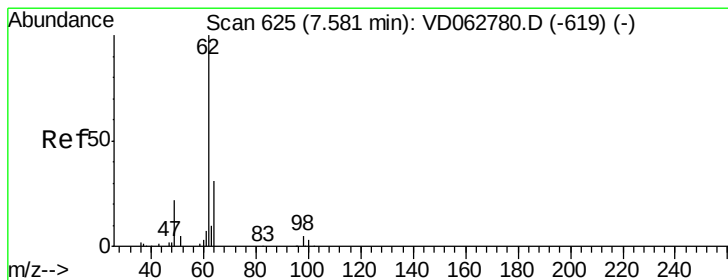
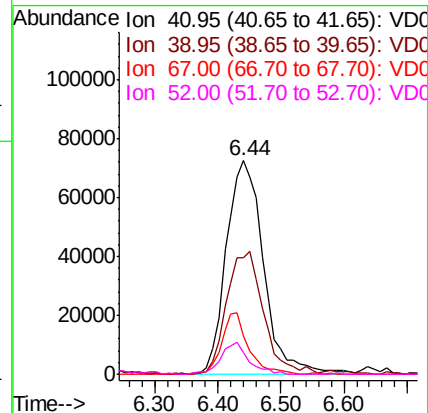
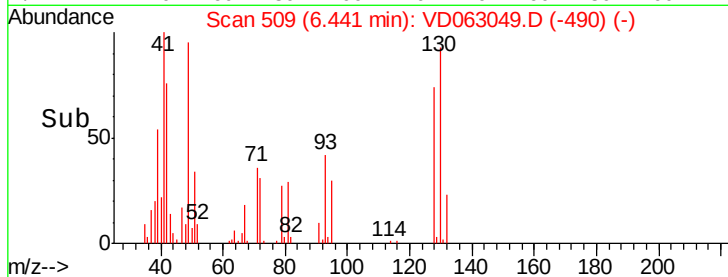
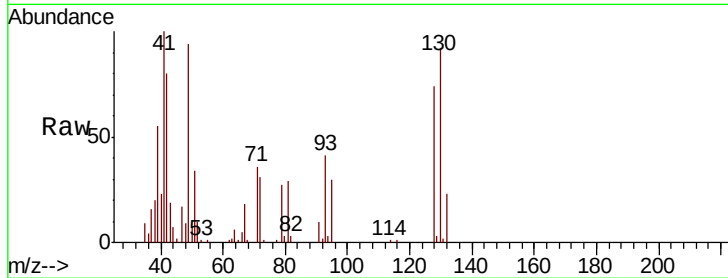
Ion Ratio Lower Upper

41 100

39 54.8 43.2 64.8

67 18.1 19.9 29.9#

52 10.2 10.2 15.4#



#42

1,2-Dichloroethane

Concen: 55.864 ug/l

RT: 7.57 min Scan# 624

Delta R.T. -0.01 min

Lab File: VD063049.D

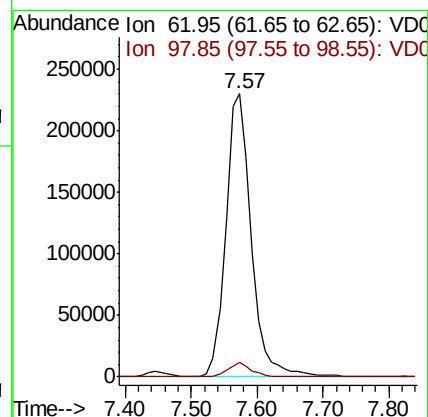
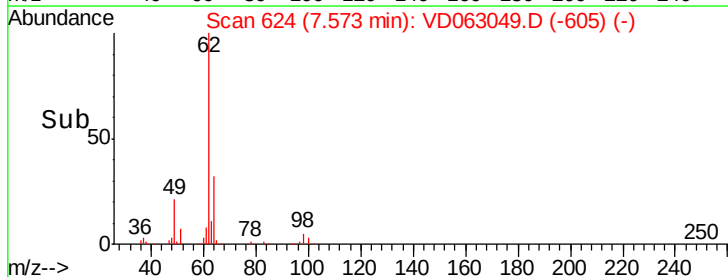
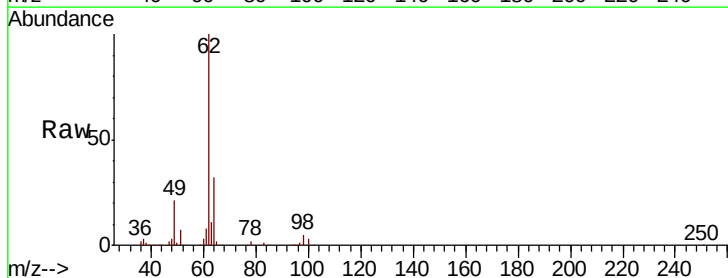
Acq: 8 Jul 2019 21:02

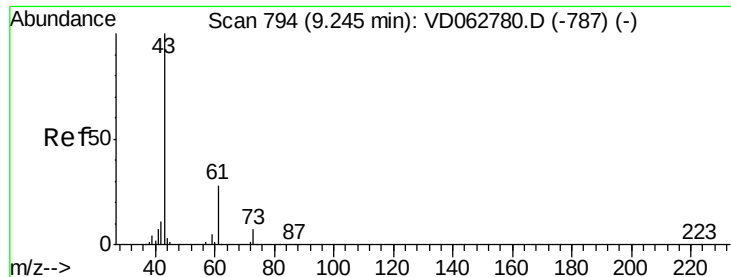
Tgt Ion: 62 Resp: 614952

Ion Ratio Lower Upper

62 100

98 5.2 0.0 10.0





#43

Isopropyl Acetate

Concen: 53.402 ug/l

RT: 9.24 min Scan# 793

Delta R.T. -0.01 min

Lab File: VD063049.D

Acq: 8 Jul 2019 21:02

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

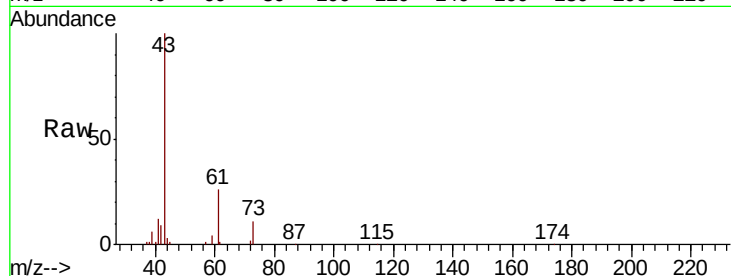
Tot Ion: 43 Resp: 281443

Ion Ratio Lower Upper

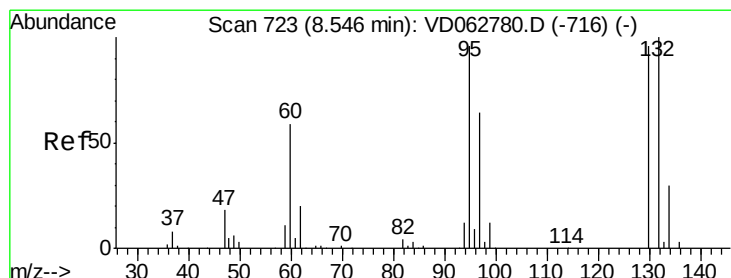
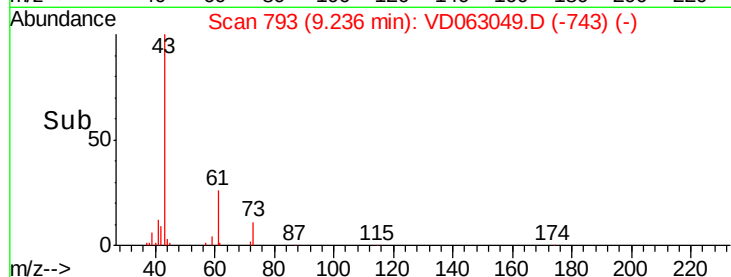
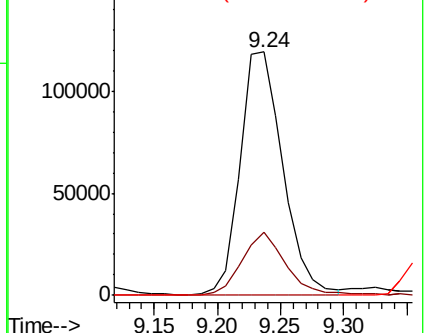
43 100

61 25.7 22.4 33.6

87 0.4 0.3 0.5



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 87.00 (86.70 to 87.70): VDC



#44

Trichloroethene

Concen: 53.639 ug/l

RT: 8.53 min Scan# 721

Delta R.T. -0.02 min

Lab File: VD063049.D

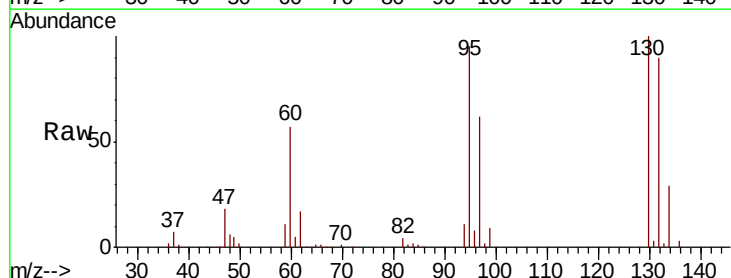
Acq: 8 Jul 2019 21:02

Tgt Ion: 130 Resp: 424336

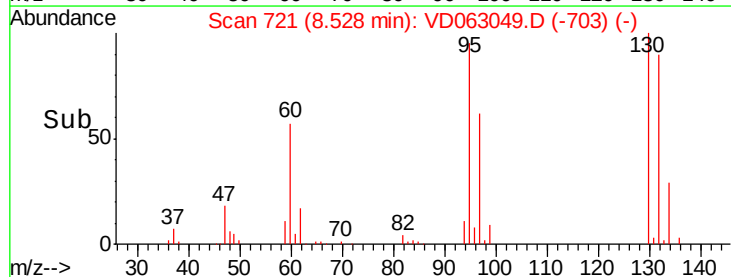
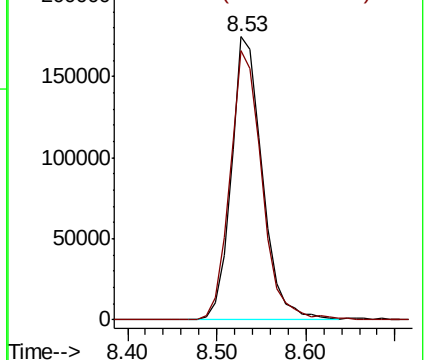
Ion Ratio Lower Upper

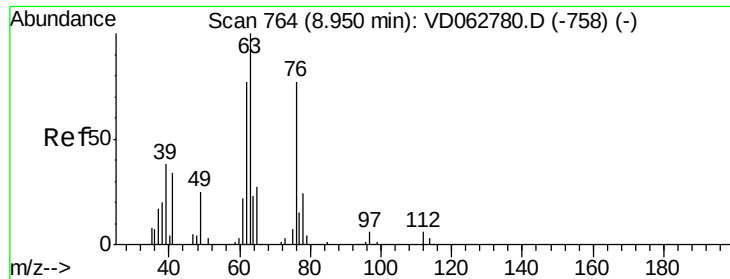
130 100

95 95.0 0.0 201.6



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

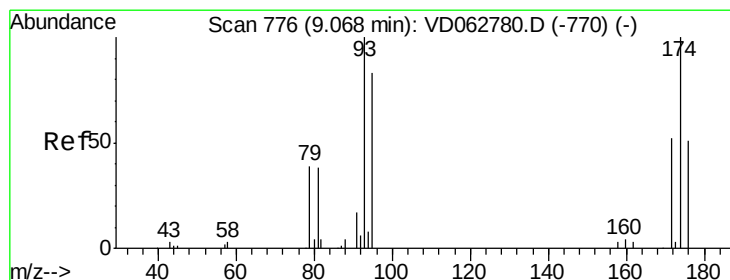
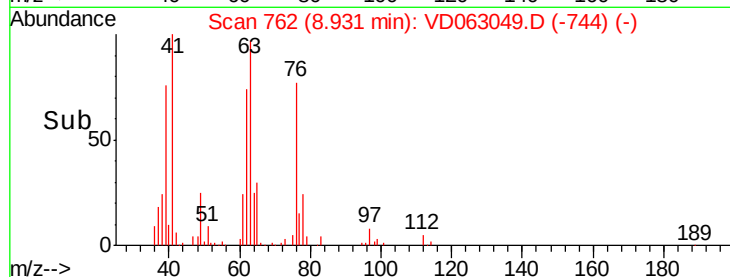
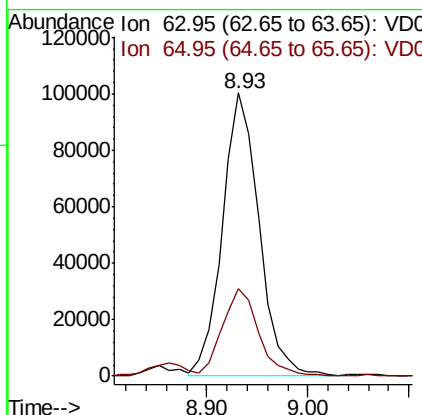
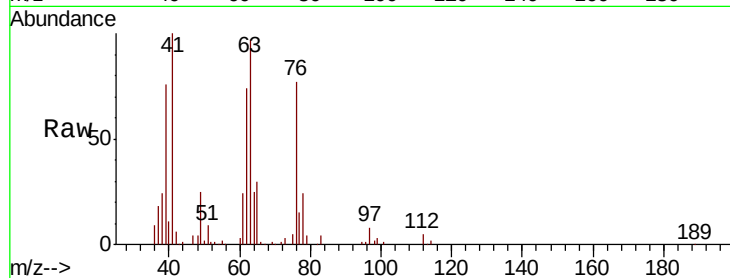




#45
 1,2-Dichloropropane
 Concen: 50.614 ug/l
 RT: 8.93 min Scan# 762
 Delta R.T. -0.02 min
 Lab File: VD063049.D
 Acq: 8 Jul 2019 21:02

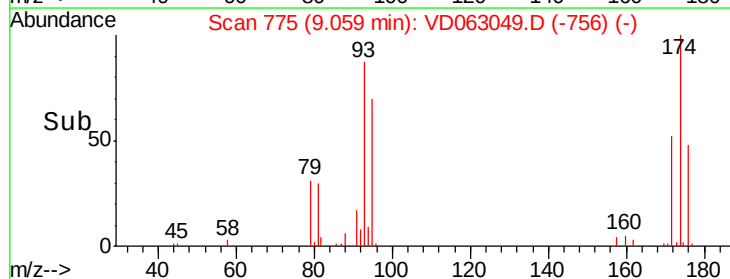
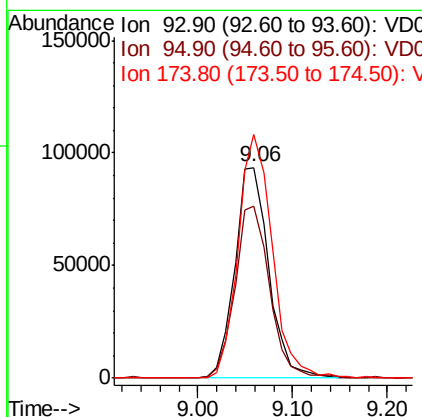
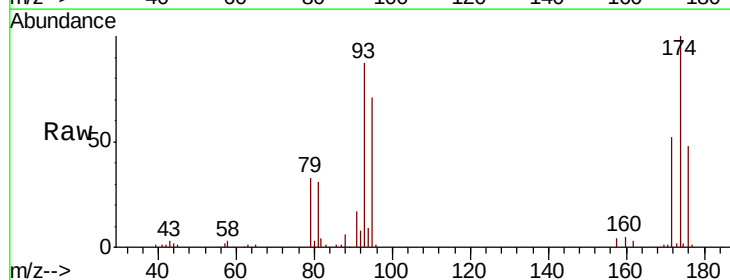
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

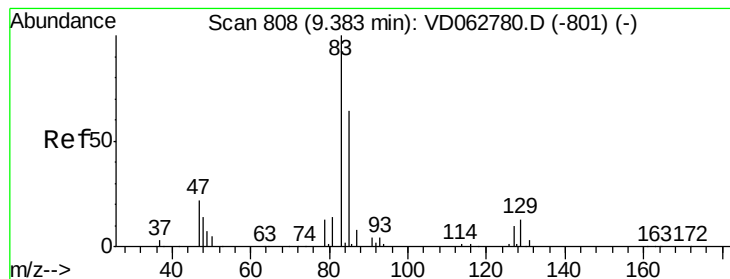
Tot Ion: 63 Resp: 253960
 Ion Ratio Lower Upper
 63 100
 65 30.8 24.2 36.2



#46
 Dibromomethane
 Concen: 54.003 ug/l
 RT: 9.06 min Scan# 775
 Delta R.T. -0.01 min
 Lab File: VD063049.D
 Acq: 8 Jul 2019 21:02

Tgt Ion: 93 Resp: 232763
 Ion Ratio Lower Upper
 93 100
 95 81.7 66.6 100.0
 174 115.5 79.7 119.5





#47

Bromodichloromethane

Concen: 57.348 ug/l

RT: 9.36 min Scan# 806

Delta R.T. -0.02 min

Lab File: VD063049.D

Acq: 8 Jul 2019 21:02

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

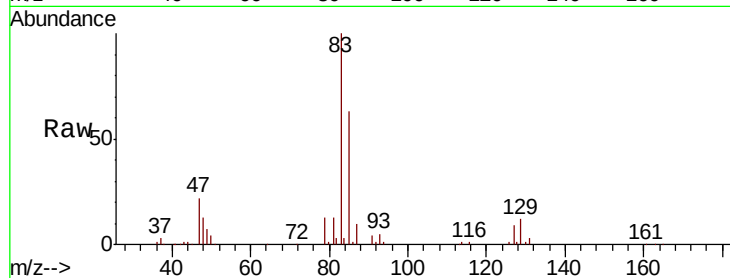
Tot Ion: 83 Resp: 641951

Ion Ratio Lower Upper

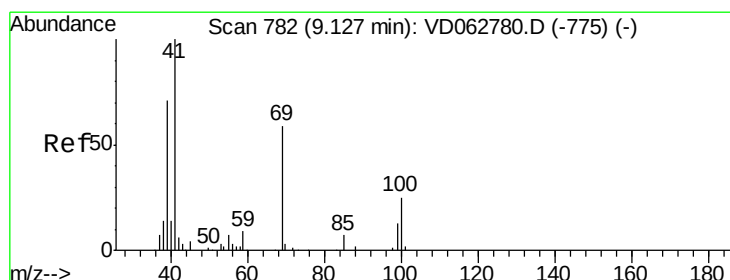
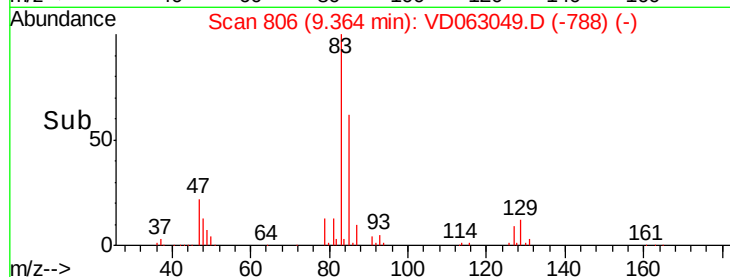
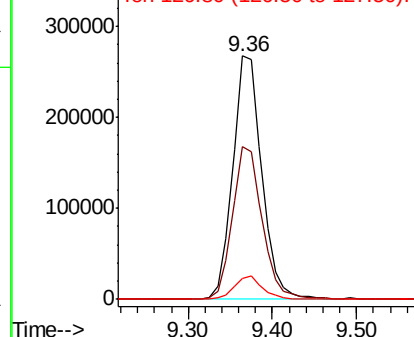
83 100

85 62.5 51.6 77.4

127 8.6 7.8 11.6



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: 50.743 ug/l

RT: 9.11 min Scan# 780

Delta R.T. -0.02 min

Lab File: VD063049.D

Acq: 8 Jul 2019 21:02

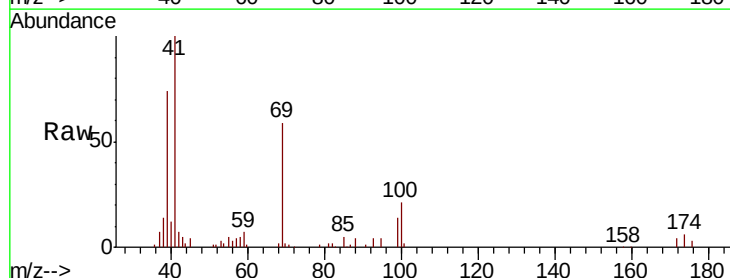
Tgt Ion: 41 Resp: 190043

Ion Ratio Lower Upper

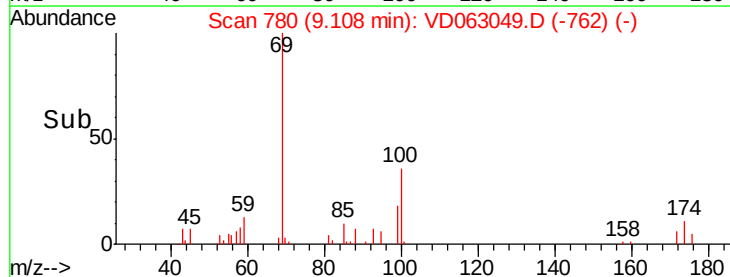
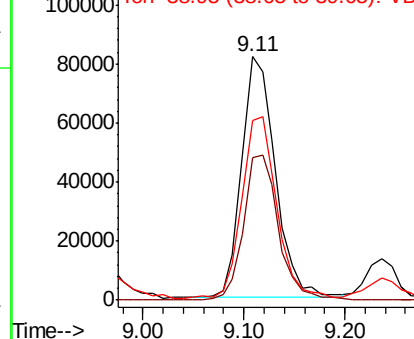
41 100

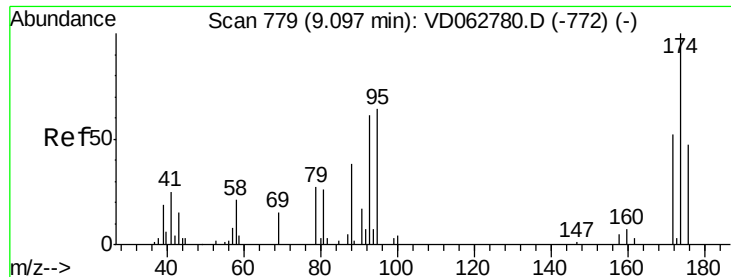
69 58.8 47.2 70.8

39 73.6 57.4 86.2



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

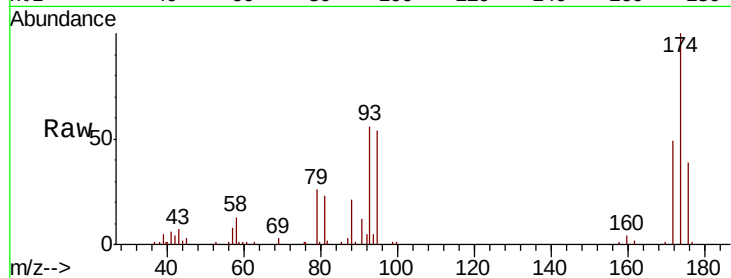




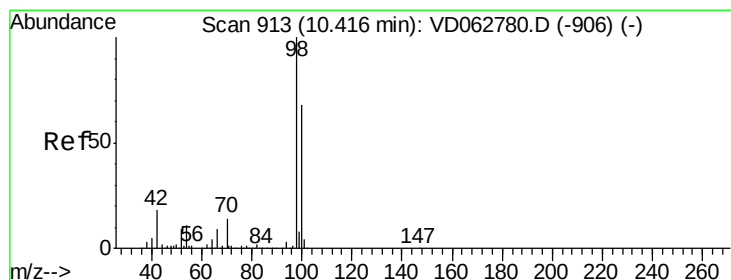
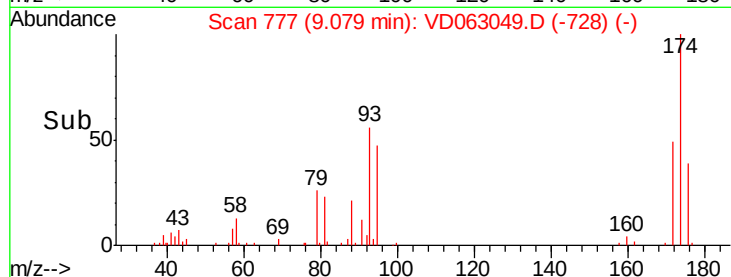
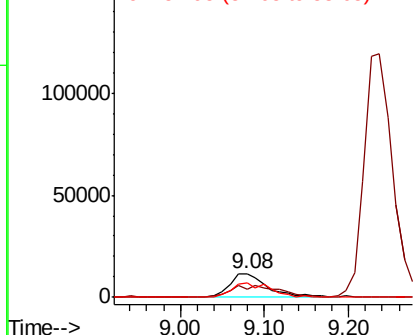
#49
1,4-Dioxane
Concen: 1188.580 ug/l
RT: 9.08 min Scan# 777
Delta R.T. -0.02 min
Lab File: VD063049.D
Acq: 8 Jul 2019 21:02

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion: 88 Resp: 37035
Ion Ratio Lower Upper
88 100
43 36.0 32.1 48.1
58 62.7 44.1 66.1

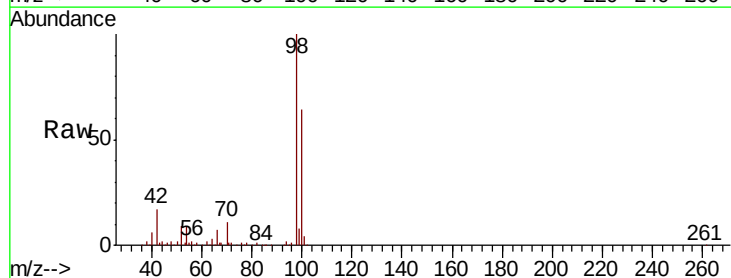


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

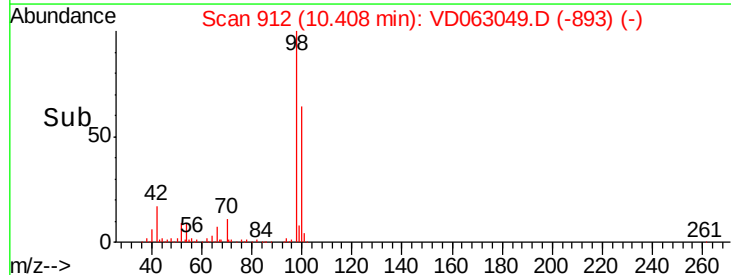
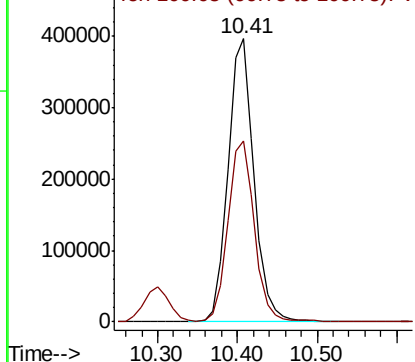


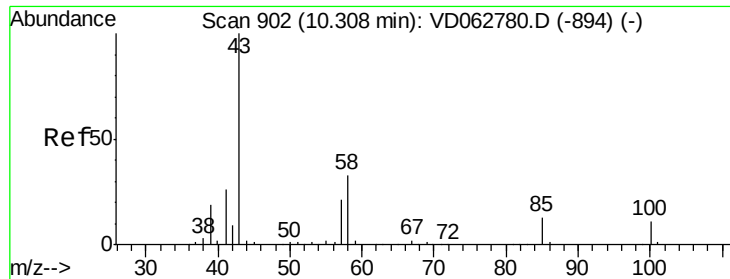
#50
Toluene-d8
Concen: 46.392 ug/l
RT: 10.41 min Scan# 912
Delta R.T. -0.01 min
Lab File: VD063049.D
Acq: 8 Jul 2019 21:02

Tgt Ion: 98 Resp: 904102
Ion Ratio Lower Upper
98 100
100 64.1 54.7 82.1



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: 284.950 ug/l

RT: 10.30 min Scan# 901

Delta R.T. -0.01 min

Lab File: VD063049.D

Acq: 8 Jul 2019 21:02

Instrument :

MSVOA_D

ClientSampleId :

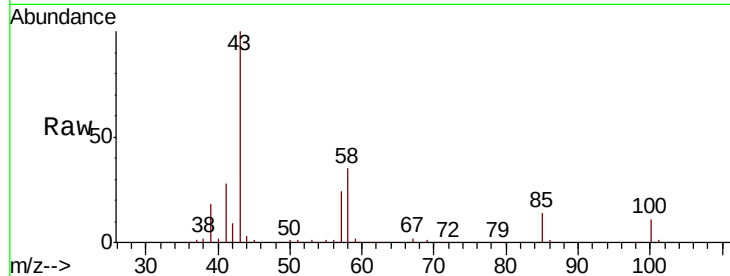
VSTDCCC050EC

Tot Ion: 43 Resp: 1064745

Ion Ratio Lower Upper

43 100

58 35.0 26.6 40.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

10.30

400000

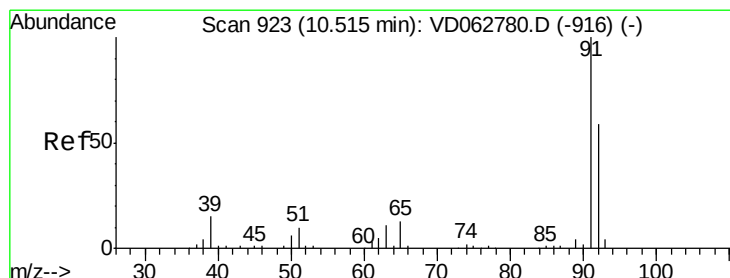
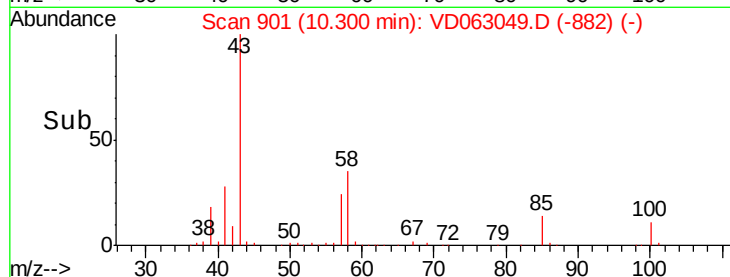
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 54.207 ug/l

RT: 10.51 min Scan# 922

Delta R.T. -0.01 min

Lab File: VD063049.D

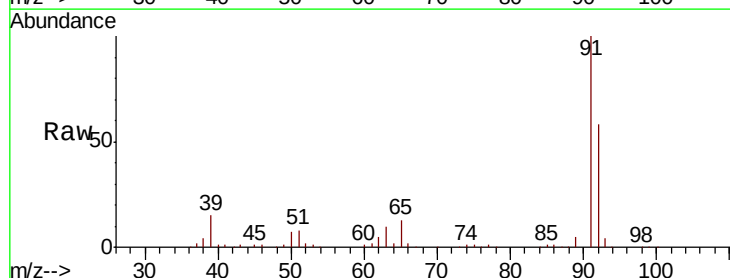
Acq: 8 Jul 2019 21:02

Tgt Ion: 92 Resp: 735283

Ion Ratio Lower Upper

92 100

91 171.4 136.3 204.5



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

10.51

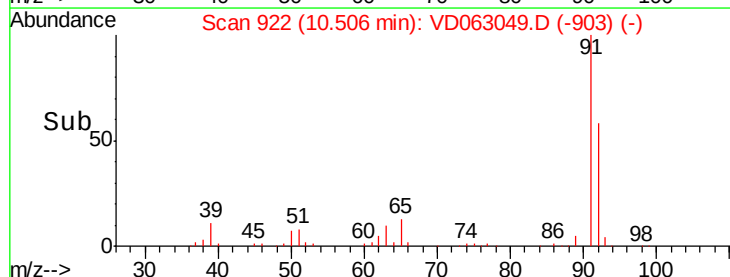
600000

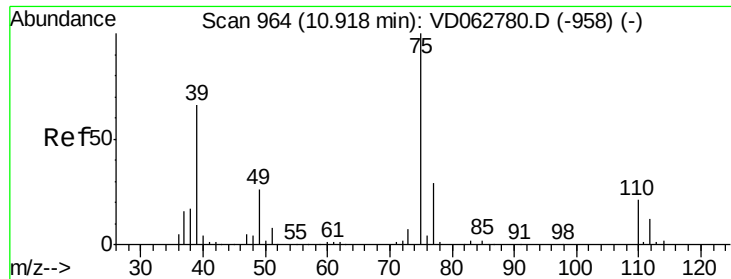
400000

200000

0

Time-->

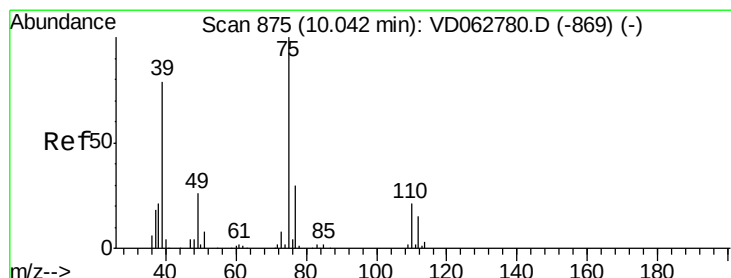
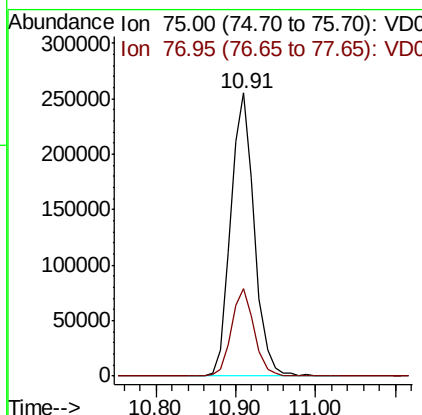
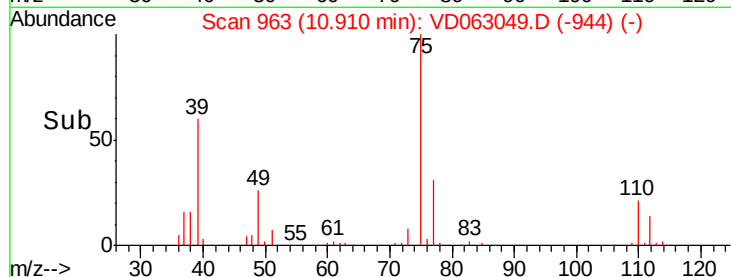
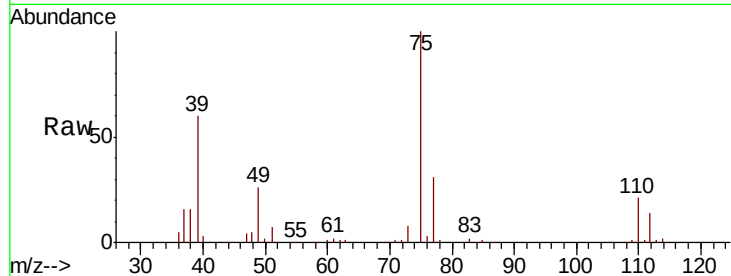




#53
 t-1,3-Dichloropropene
 Concen: 57.623 ug/l
 RT: 10.91 min Scan# 963
 Delta R.T. -0.01 min
 Lab File: VD063049.D
 Acq: 8 Jul 2019 21:02

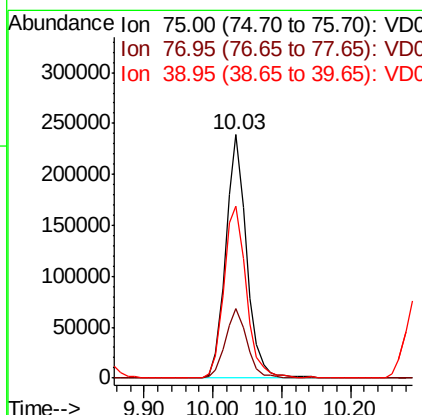
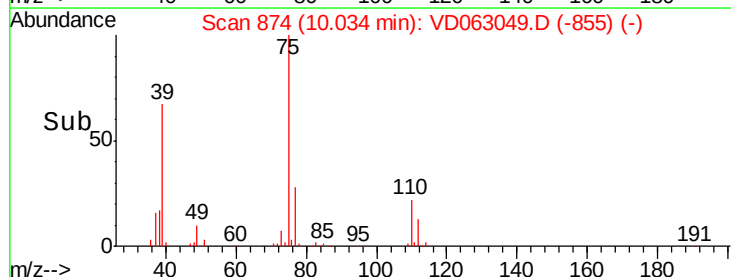
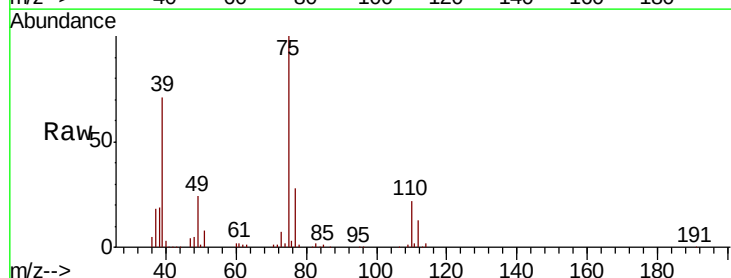
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

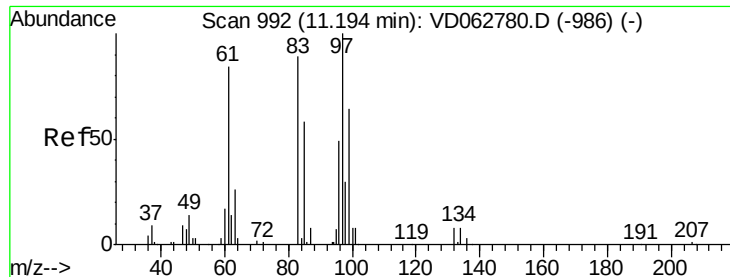
Tot Ion: 75 Resp: 527948
 Ion Ratio Lower Upper
 75 100
 77 31.1 23.2 34.8



#54
 cis-1,3-Dichloropropene
 Concen: 50.272 ug/l
 RT: 10.03 min Scan# 874
 Delta R.T. -0.01 min
 Lab File: VD063049.D
 Acq: 8 Jul 2019 21:02

Tgt Ion: 75 Resp: 500635
 Ion Ratio Lower Upper
 75 100
 77 28.5 24.2 36.2
 39 70.5 63.5 95.3

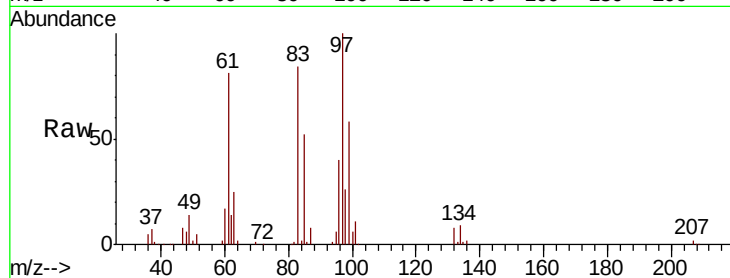




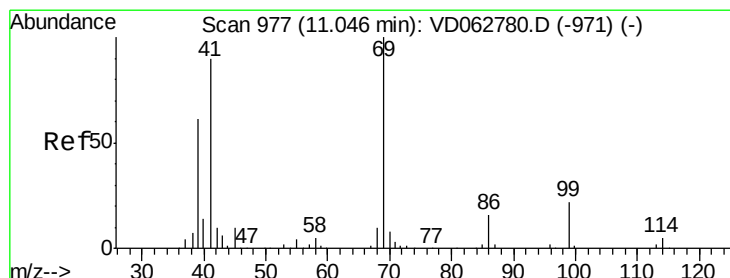
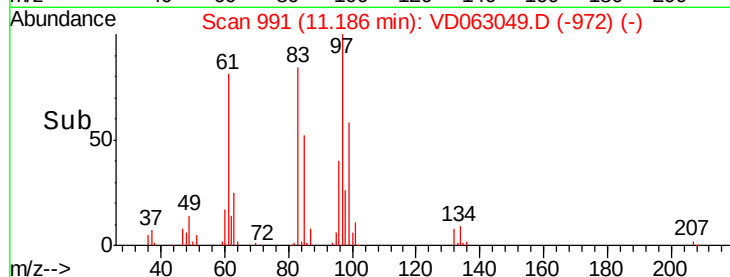
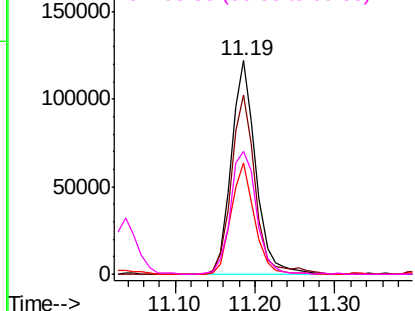
#55
 1,1,2-Trichloroethane
 Concen: 56.171 ug/l
 RT: 11.19 min Scan# 991
 Delta R.T. -0.01 min
 Lab File: VD063049.D
 Acq: 8 Jul 2019 21:02

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

Tot Ion:	97	Resp:	261765
Ion	Ratio	Lower	Upper
97	100		
83	83.8	71.0	106.4
85	52.0	46.6	69.8
99	57.8	51.4	77.0

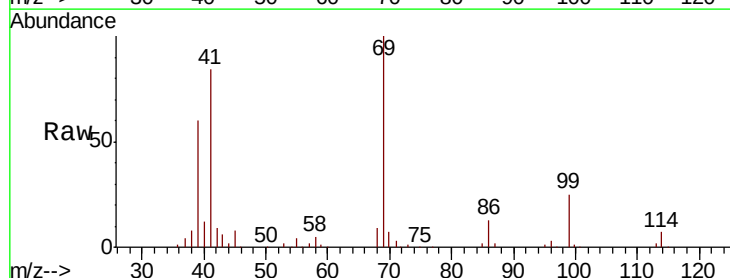


Abundance Ion 96.85 (96.55 to 97.55): VDC
 Ion 82.95 (82.65 to 83.65): VDC
 Ion 84.95 (84.65 to 85.65): VDC
 Ion 98.85 (98.55 to 99.55): VDC

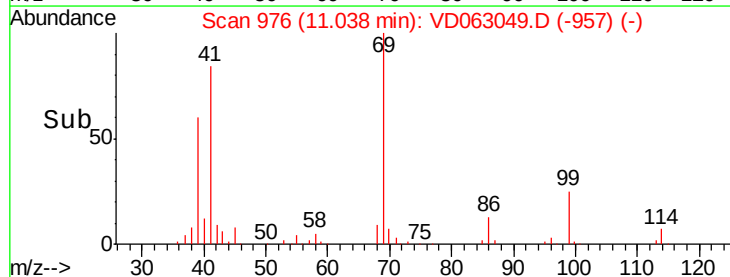
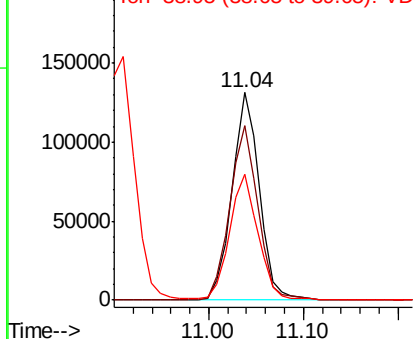


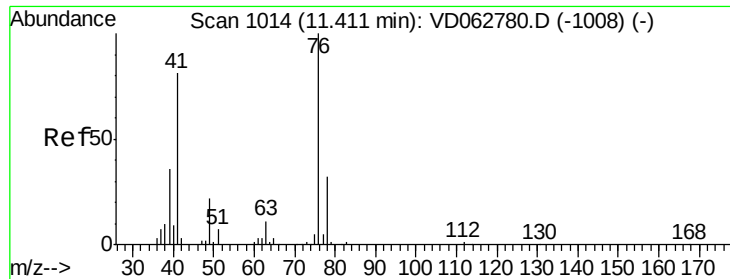
#56
 Ethyl methacrylate
 Concen: 52.723 ug/l
 RT: 11.04 min Scan# 976
 Delta R.T. -0.01 min
 Lab File: VD063049.D
 Acq: 8 Jul 2019 21:02

Tgt Ion:	69	Resp:	262577
Ion	Ratio	Lower	Upper
69	100		
41	84.1	72.0	108.0
39	60.4	49.5	74.3



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

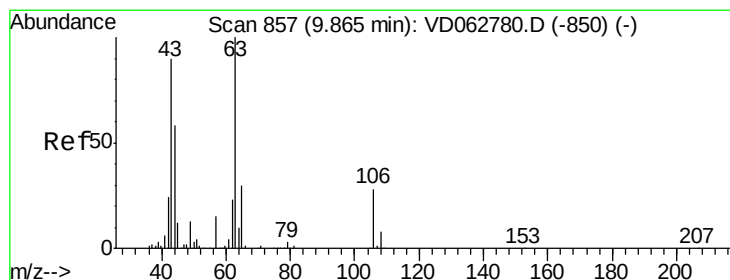
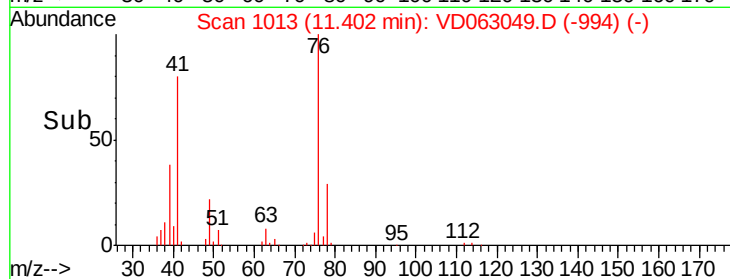
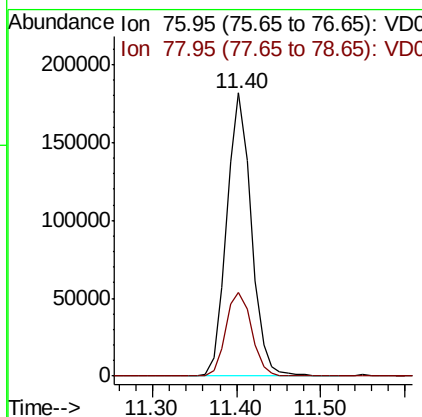
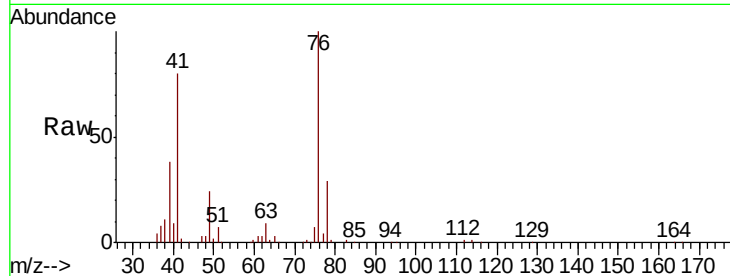




#57
 1,3-Dichloropropane
 Concen: 51.684 ug/l
 RT: 11.40 min Scan# 1013
 Delta R.T. -0.01 min
 Lab File: VD063049.D
 Acq: 8 Jul 2019 21:02

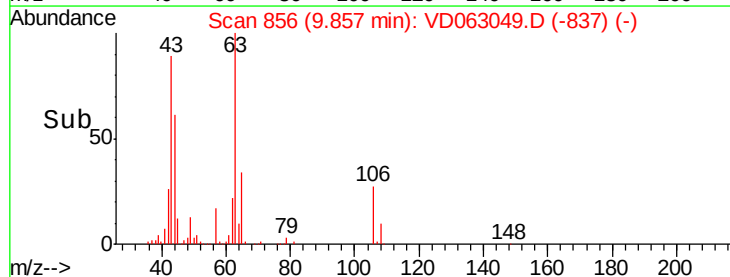
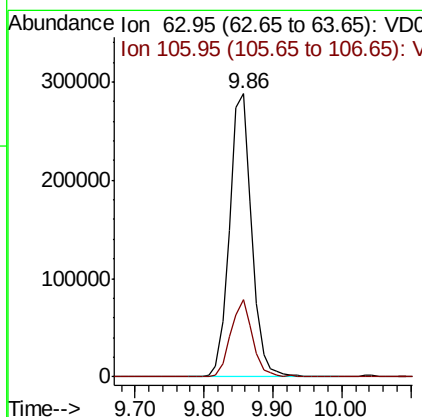
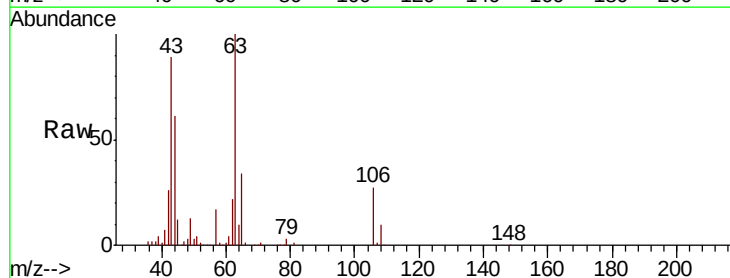
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

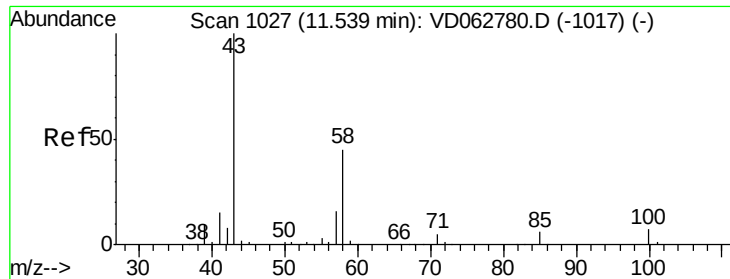
Tot Ion: 76 Resp: 368789
 Ion Ratio Lower Upper
 76 100
 78 29.4 25.4 38.0



#58
 2-Chloroethyl Vinyl ether
 Concen: 250.115 ug/l
 RT: 9.86 min Scan# 856
 Delta R.T. -0.01 min
 Lab File: VD063049.D
 Acq: 8 Jul 2019 21:02

Tgt Ion: 63 Resp: 639493
 Ion Ratio Lower Upper
 63 100
 106 27.3 22.1 33.1

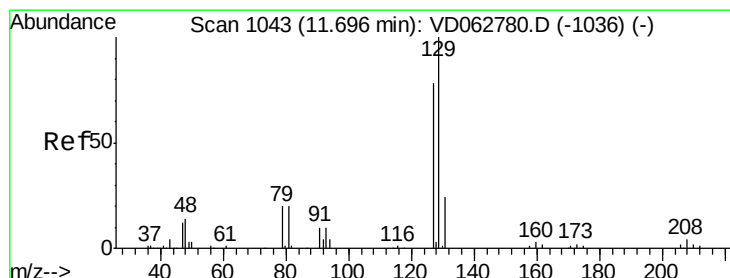
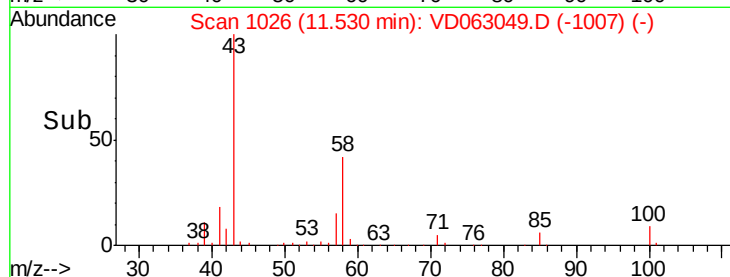
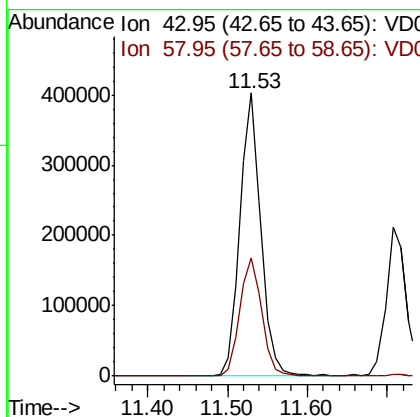
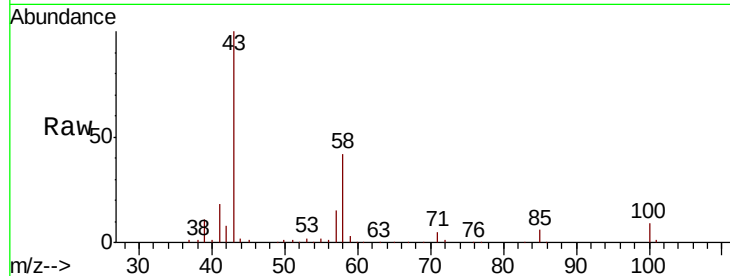




#59
2-Hexanone
Concen: 276.254 ug/l
RT: 11.53 min Scan# 1026
Delta R.T. -0.01 min
Lab File: VD063049.D
Acq: 8 Jul 2019 21:02

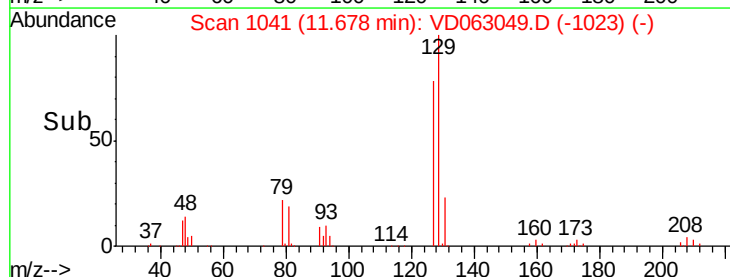
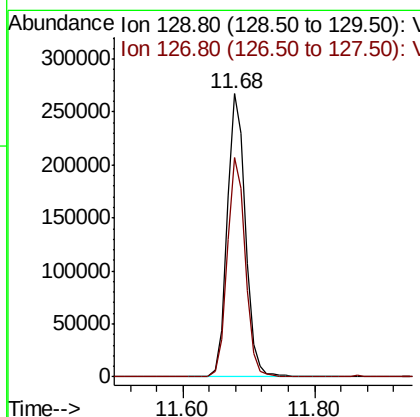
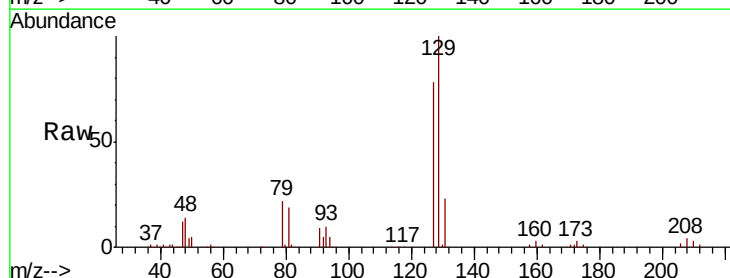
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

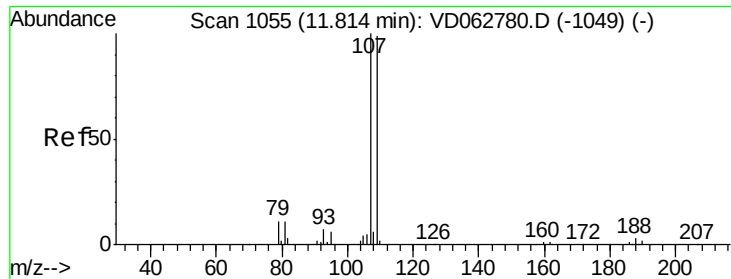
Tot Ion: 43 Resp: 735159
Ion Ratio Lower Upper
43 100
58 41.6 22.4 67.2



#60
Dibromochloromethane
Concen: 59.772 ug/l
RT: 11.68 min Scan# 1041
Delta R.T. -0.02 min
Lab File: VD063049.D
Acq: 8 Jul 2019 21:02

Tgt Ion:129 Resp: 518837
Ion Ratio Lower Upper
129 100
127 77.7 38.9 116.6

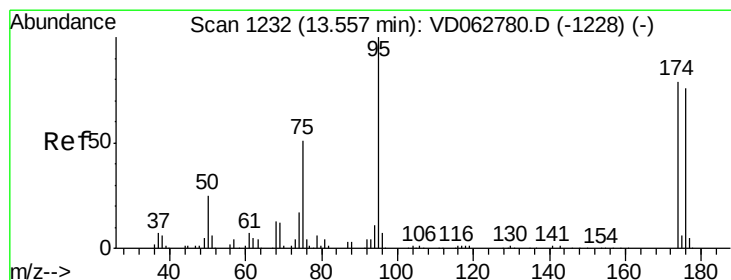
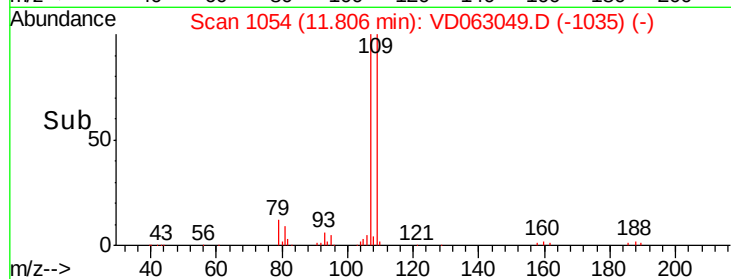
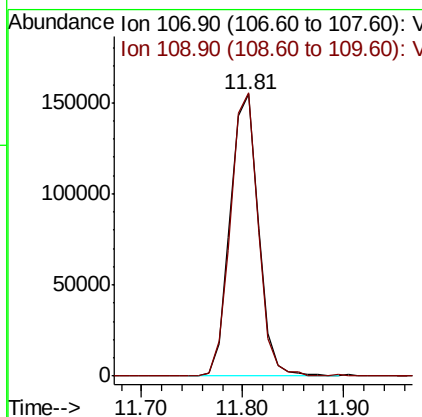
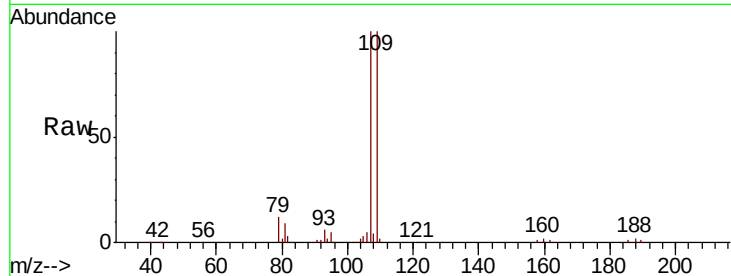




#61
 1,2-Dibromoethane
 Concen: 54.770 ug/l
 RT: 11.81 min Scan# 1054
 Delta R.T. -0.01 min
 Lab File: VD063049.D
 Acq: 8 Jul 2019 21:02

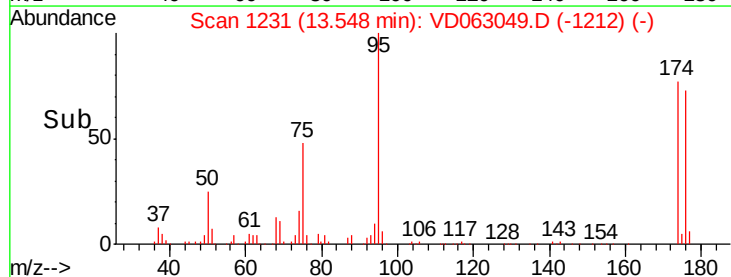
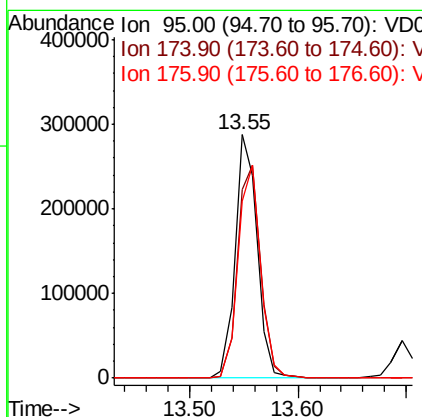
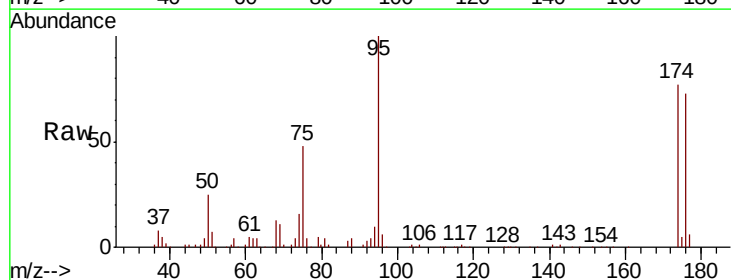
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

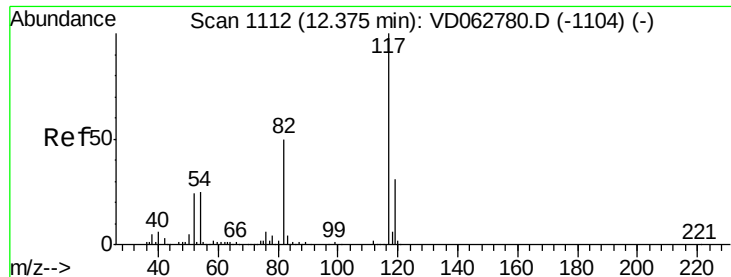
Tot Ion:107 Resp: 301449
 Ion Ratio Lower Upper
 107 100
 109 100.5 79.3 118.9



#62
 4-Bromofluorobenzene
 Concen: 45.881 ug/l
 RT: 13.55 min Scan# 1231
 Delta R.T. -0.01 min
 Lab File: VD063049.D
 Acq: 8 Jul 2019 21:02

Tgt Ion: 95 Resp: 406574
 Ion Ratio Lower Upper
 95 100
 174 77.3 0.0 158.0
 176 72.5 0.0 151.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.37 min Scan# 1111

Delta R.T. -0.01 min

Lab File: VD063049.D

Acq: 8 Jul 2019 21:02

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

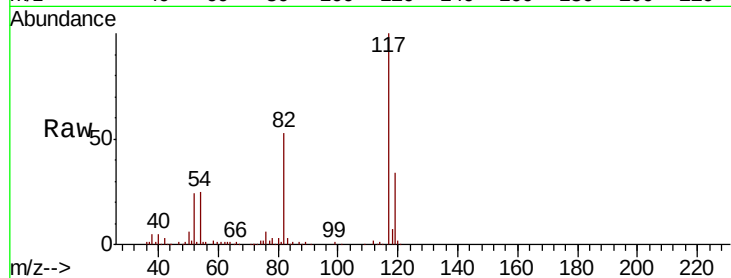
Tot Ion:117 Resp: 885505

Ion Ratio Lower Upper

117 100

82 53.1 40.4 60.6

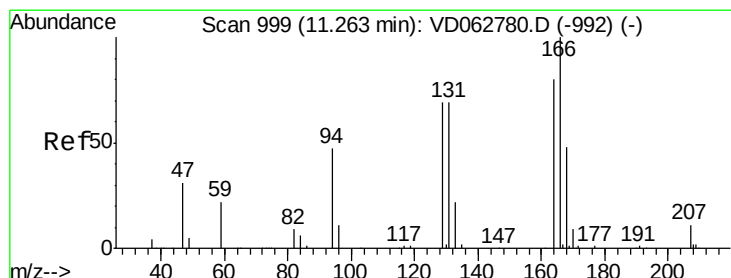
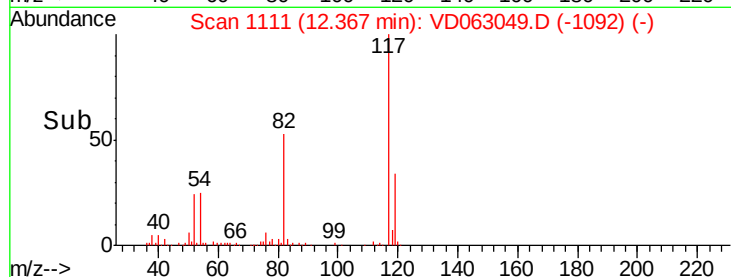
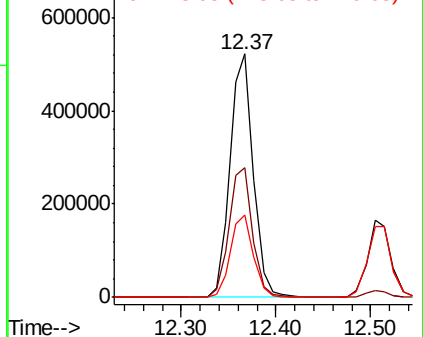
119 33.6 25.2 37.8



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: 53.546 ug/l

RT: 11.25 min Scan# 998

Delta R.T. -0.01 min

Lab File: VD063049.D

Acq: 8 Jul 2019 21:02

Tgt Ion:164 Resp: 390240

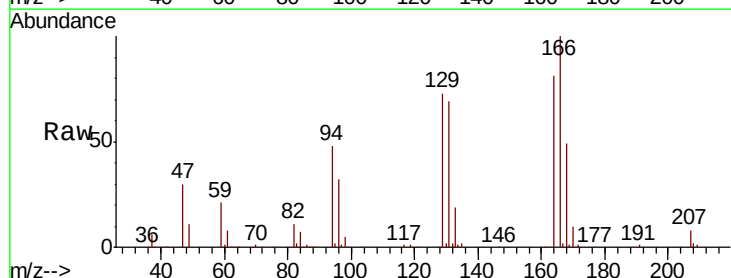
Ion Ratio Lower Upper

164 100

166 123.0 100.6 150.8

129 90.1 69.4 104.0

131 85.5 69.3 103.9

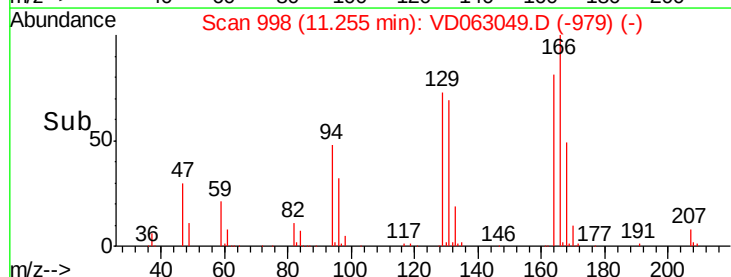
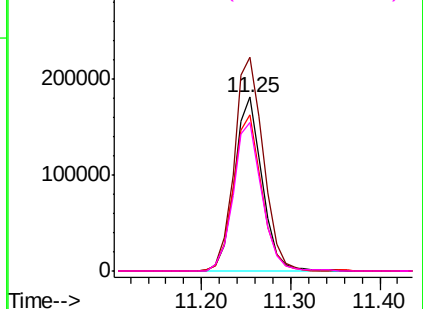


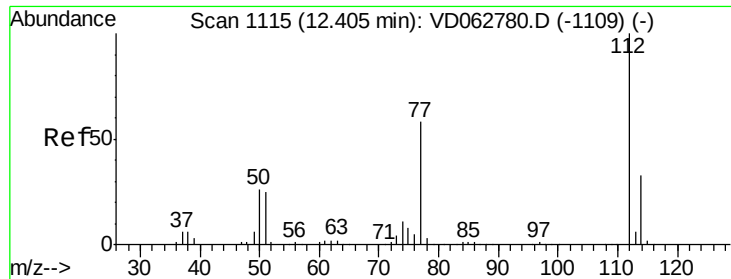
Abundance Ion 163.85 (163.55 to 164.55): V

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

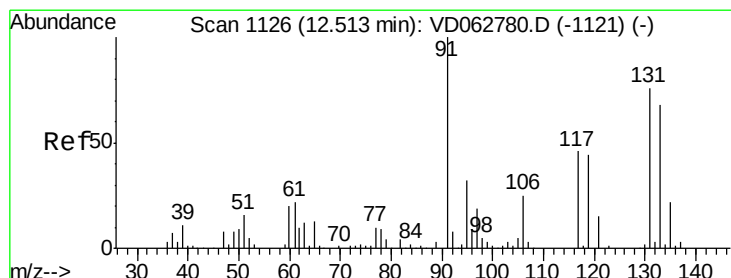
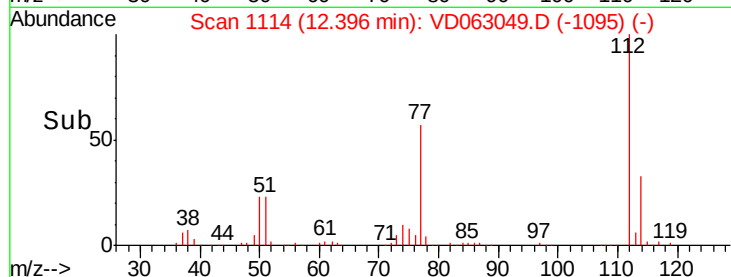
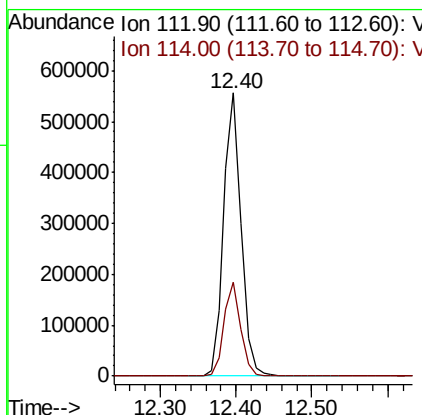
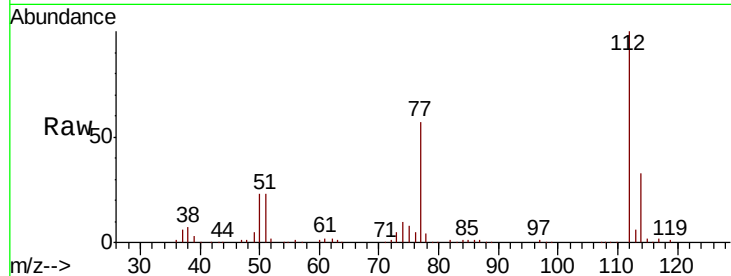




#65
Chlorobenzene
Concen: 54.582 ug/l
RT: 12.40 min Scan# 1114
Delta R.T. -0.01 min
Lab File: VD063049.D
Acq: 8 Jul 2019 21:02

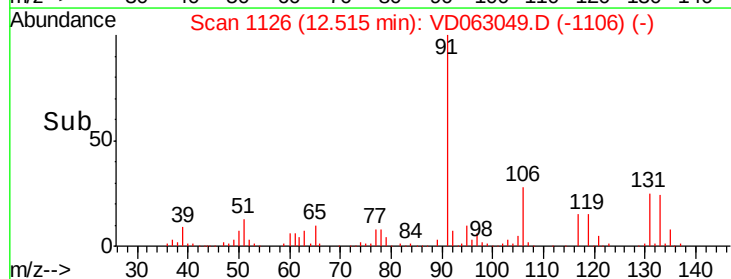
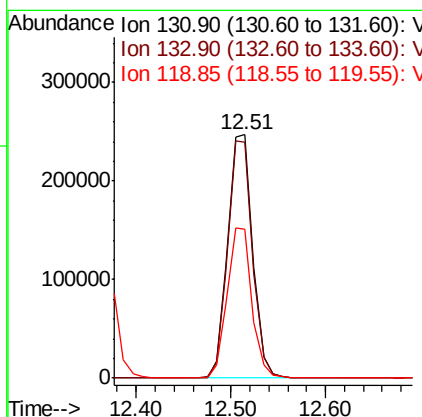
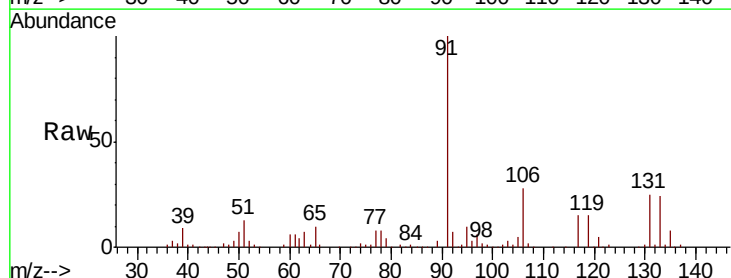
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

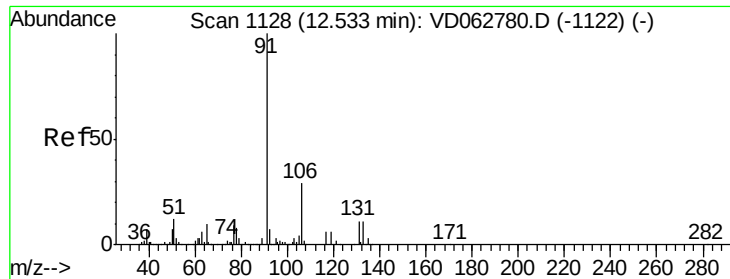
Tot Ion:112 Resp: 897005
Ion Ratio Lower Upper
112 100
114 33.4 26.3 39.5



#66
1,1,1,2-Tetrachloroethane
Concen: 58.811 ug/l
RT: 12.51 min Scan# 1126
Delta R.T. 0.00 min
Lab File: VD063049.D
Acq: 8 Jul 2019 21:02

Tgt Ion:131 Resp: 451988
Ion Ratio Lower Upper
131 100
133 97.2 44.5 133.3
119 61.0 28.6 85.9

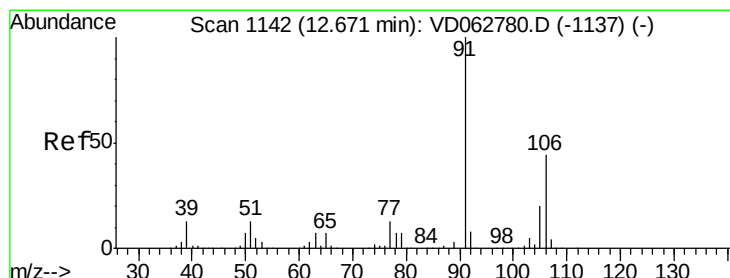
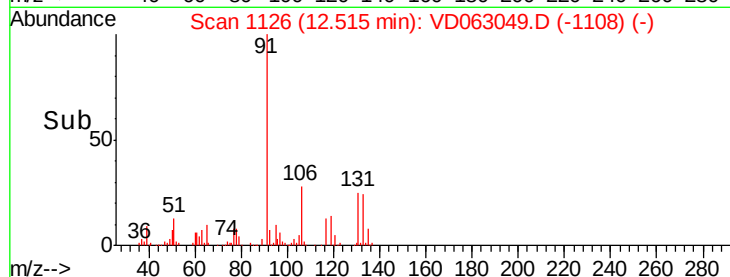
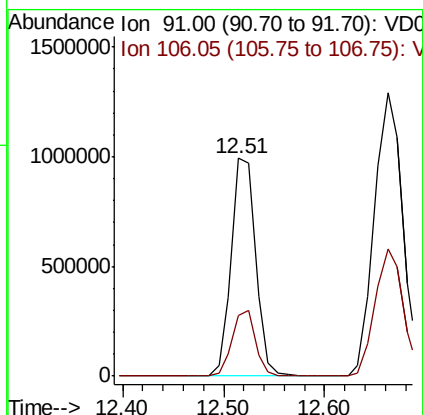
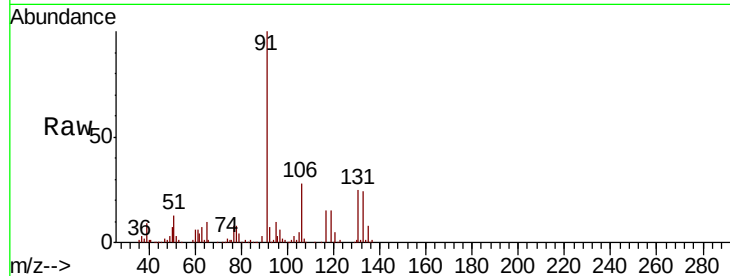




#67
Ethyl Benzene
Concen: 56.806 ug/l
RT: 12.51 min Scan# 1126
Delta R.T. -0.02 min
Lab File: VD063049.D
Acq: 8 Jul 2019 21:02

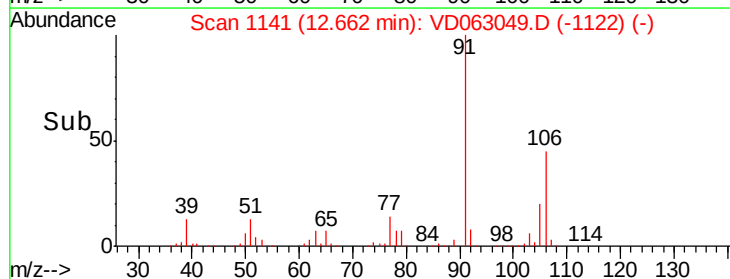
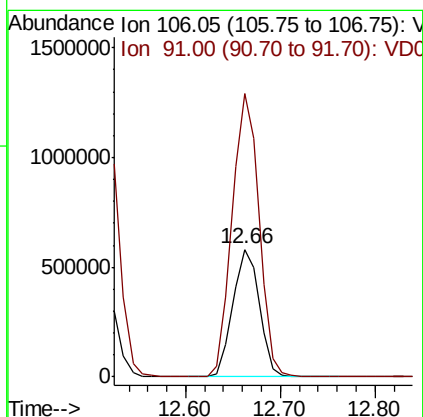
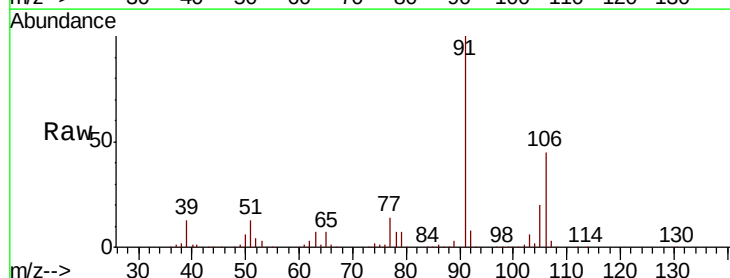
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

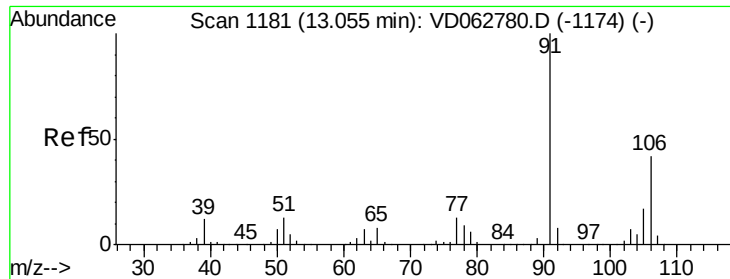
Tot Ion: 91 Resp: 1676095
Ion Ratio Lower Upper
91 100
106 28.0 23.1 34.7



#68
m/p-Xylenes
Concen: 109.908 ug/l
RT: 12.66 min Scan# 1141
Delta R.T. -0.01 min
Lab File: VD063049.D
Acq: 8 Jul 2019 21:02

Tgt Ion: 106 Resp: 1129462
Ion Ratio Lower Upper
106 100
91 221.7 183.0 274.6

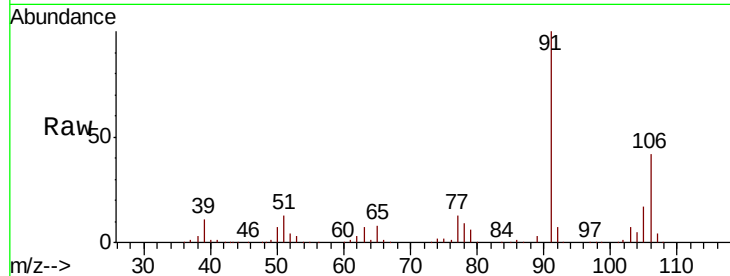




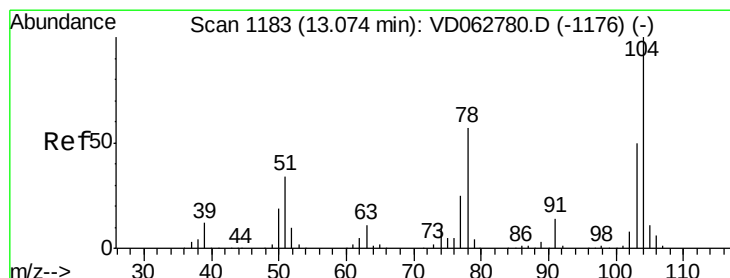
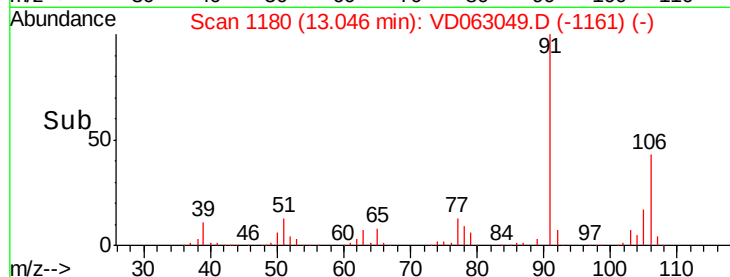
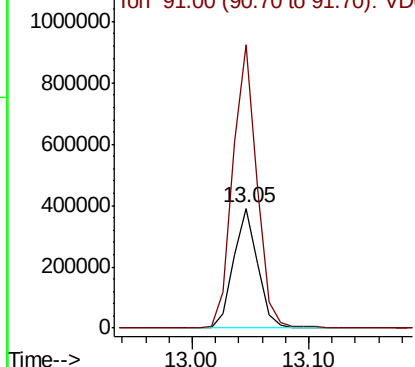
#69
o-Xylene
Concen: 59.656 ug/l
RT: 13.05 min Scan# 1180
Delta R.T. -0.01 min
Lab File: VD063049.D
Acq: 8 Jul 2019 21:02

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion:106 Resp: 560420
Ion Ratio Lower Upper
106 100
91 235.6 117.9 353.6

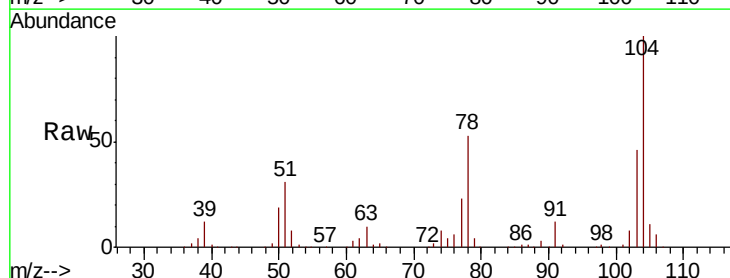


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

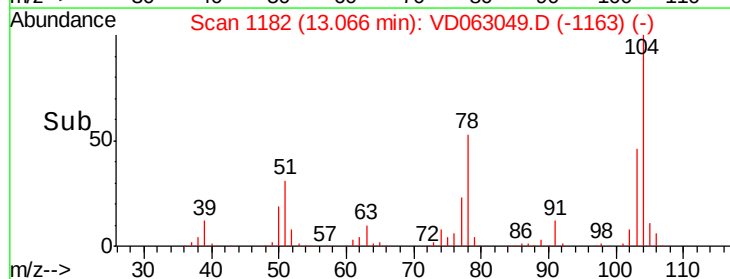
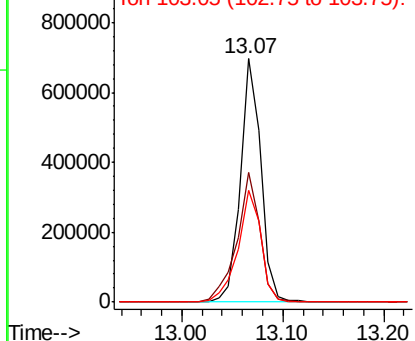


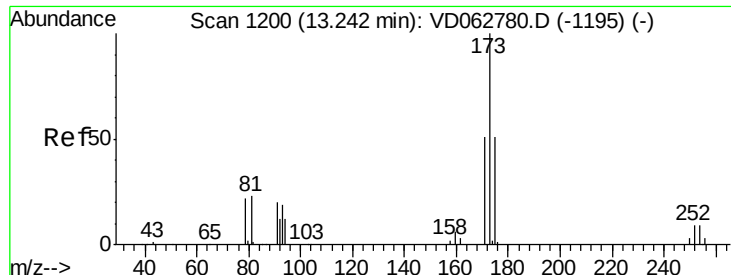
#70
Styrene
Concen: 59.256 ug/l
RT: 13.07 min Scan# 1182
Delta R.T. -0.01 min
Lab File: VD063049.D
Acq: 8 Jul 2019 21:02

Tgt Ion:104 Resp: 977755
Ion Ratio Lower Upper
104 100
78 53.5 45.4 68.2
103 45.9 39.7 59.5



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





#71

Bromoform

Concen: 60.639 ug/l

RT: 13.23 min Scan# 1199

Delta R.T. -0.01 min

Lab File: VD063049.D

Acq: 8 Jul 2019 21:02

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

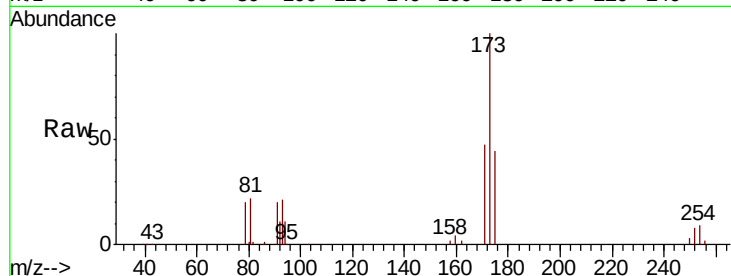
Tot Ion:173 Resp: 319306

Ion Ratio Lower Upper

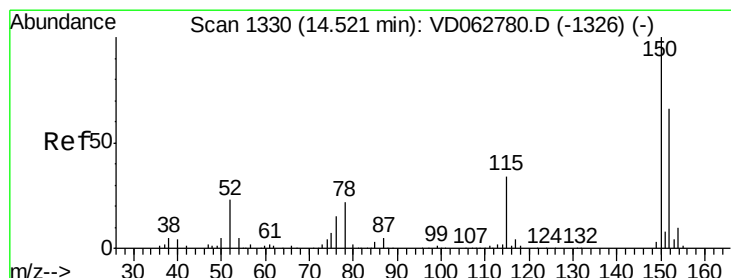
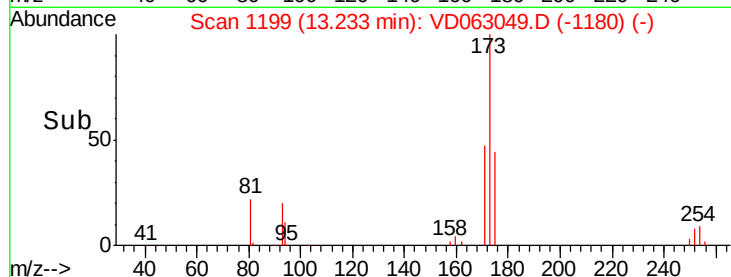
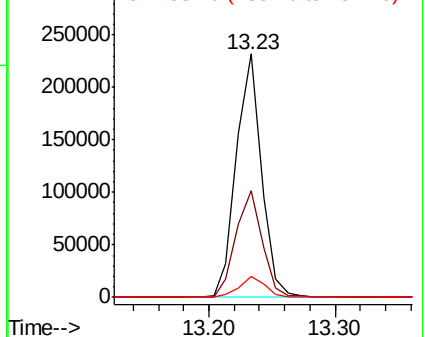
173 100

175 43.9 25.3 75.9

254 8.6 7.1 10.7



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: 14.51 min Scan# 1329

Delta R.T. -0.01 min

Lab File: VD063049.D

Acq: 8 Jul 2019 21:02

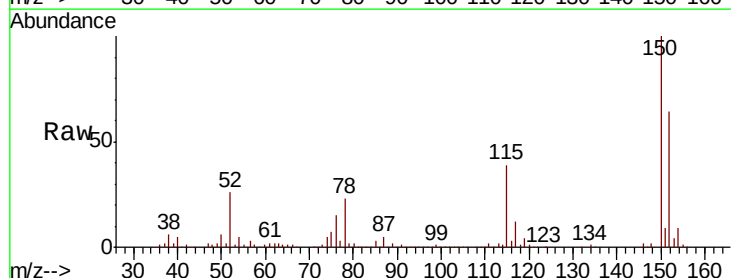
Tgt Ion:152 Resp: 506508

Ion Ratio Lower Upper

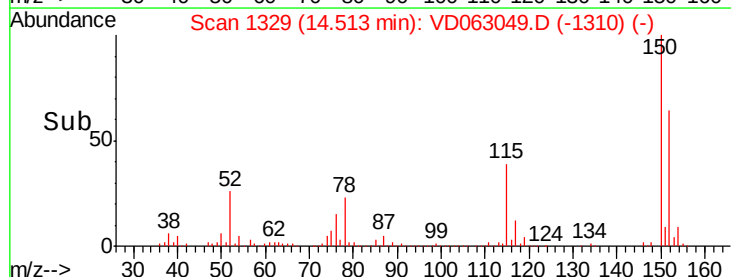
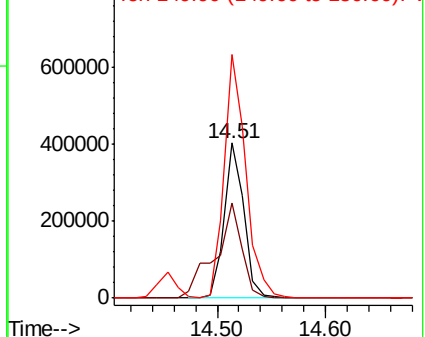
152 100

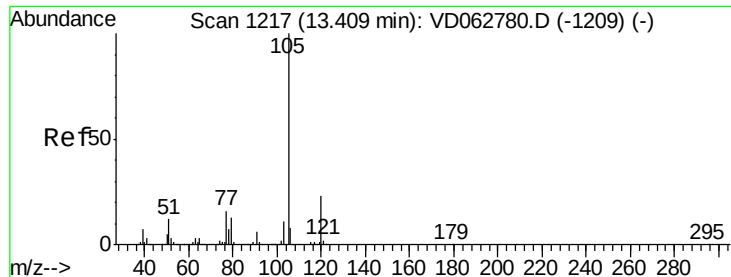
115 61.2 29.2 87.6

150 157.1 0.0 305.8



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





#73

Isopropylbenzene

Concen: 52.647 ug/l

RT: 13.40 min Scan# 1216

Delta R.T. -0.01 min

Lab File: VD063049.D

Acq: 8 Jul 2019 21:02

Instrument :

MSVOA_D

ClientSampleId :

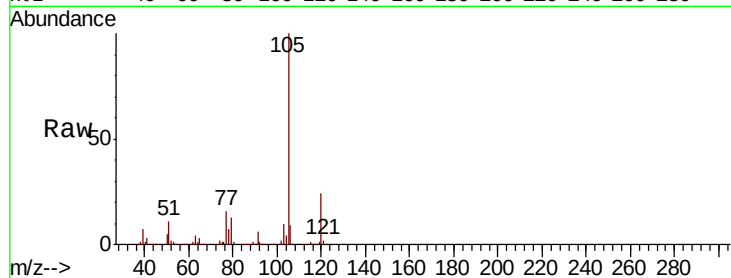
VSTDCCC050EC

Tot Ion:105 Resp: 1709786

Ion Ratio Lower Upper

105 100

120 23.8 11.6 34.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

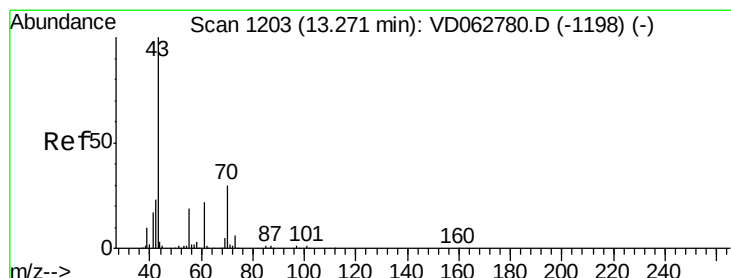
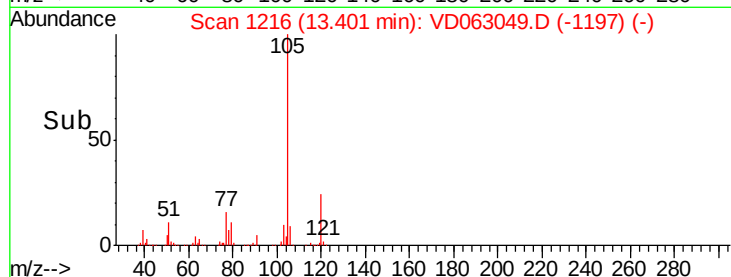
13.40

1000000

500000

0

Time--> 13.30 13.40 13.50



#74

N-ethyl acetate

Concen: 56.700 ug/l

RT: 13.26 min Scan# 1202

Delta R.T. -0.01 min

Lab File: VD063049.D

Acq: 8 Jul 2019 21:02

Tgt Ion: 43 Resp: 447183

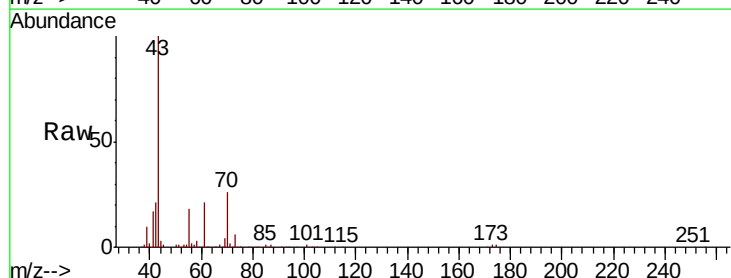
Ion Ratio Lower Upper

43 100

70 25.5 24.4 36.6

55 18.3 15.2 22.8

61 20.7 17.4 26.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC

500000

400000

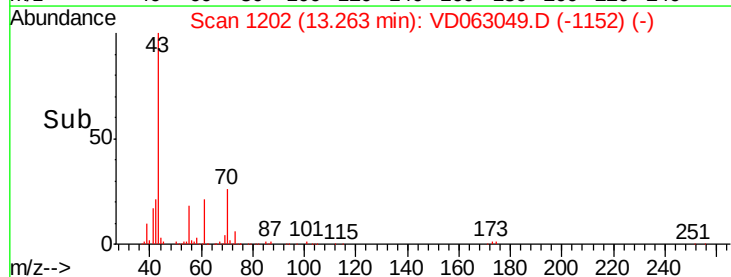
300000

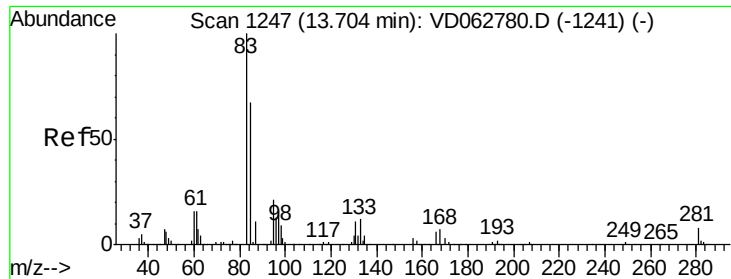
200000

100000

0

Time--> 13.20 13.30





#75

1,1,2,2-Tetrachloroethane

Concen: 57.026 ug/l

RT: 13.70 min Scan# 1246

Delta R.T. -0.01 min

Lab File: VD063049.D

Acq: 8 Jul 2019 21:02

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

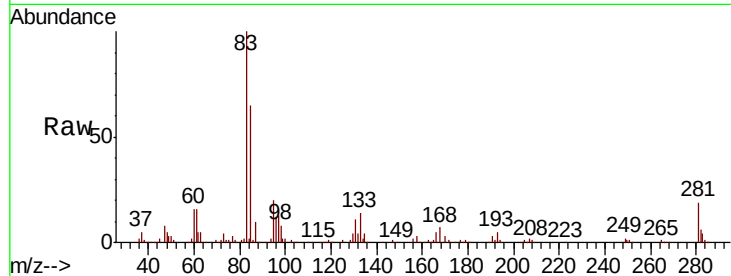
Tot Ion: 83 Resp: 301750

Ion Ratio Lower Upper

83 100

131 10.6 5.3 16.1

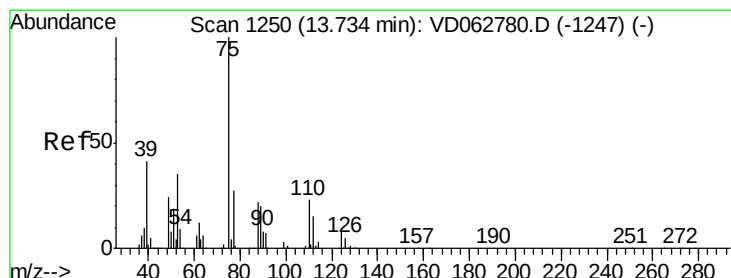
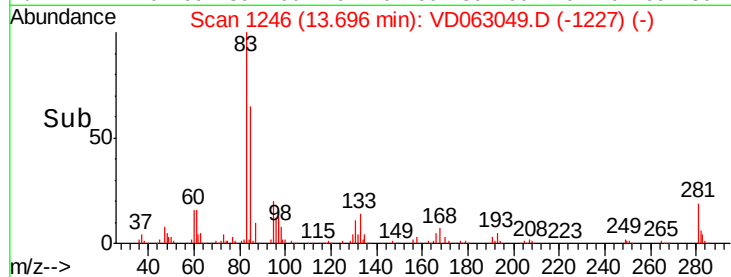
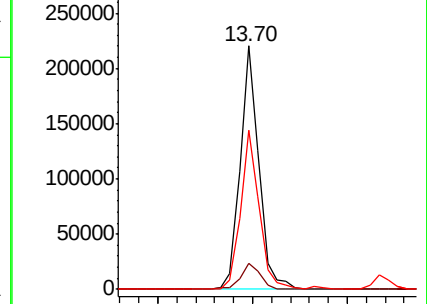
85 65.4 33.7 101.1



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: 56.988 ug/l

RT: 13.73 min Scan# 1249

Delta R.T. -0.01 min

Lab File: VD063049.D

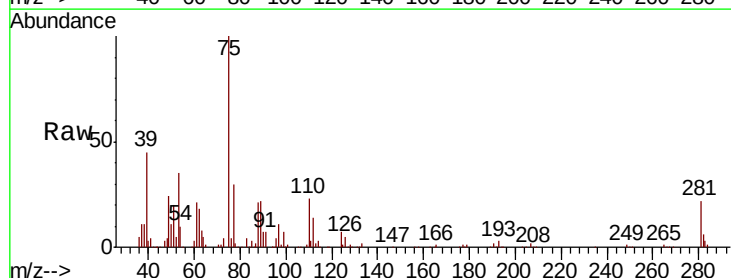
Acq: 8 Jul 2019 21:02

Tgt Ion: 75 Resp: 333225

Ion Ratio Lower Upper

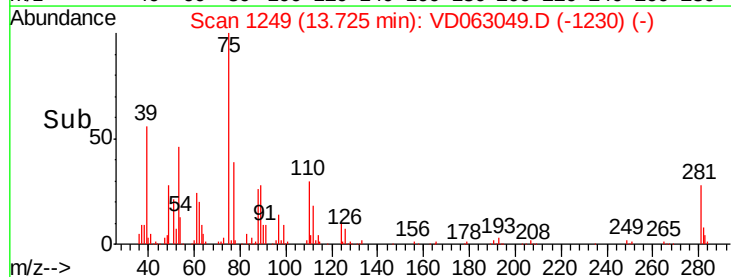
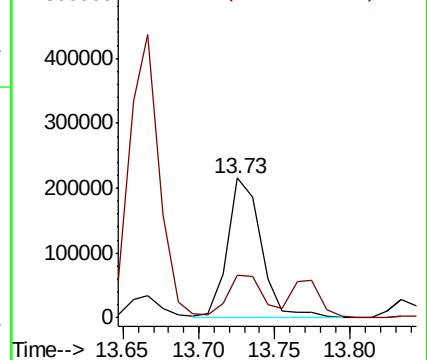
75 100

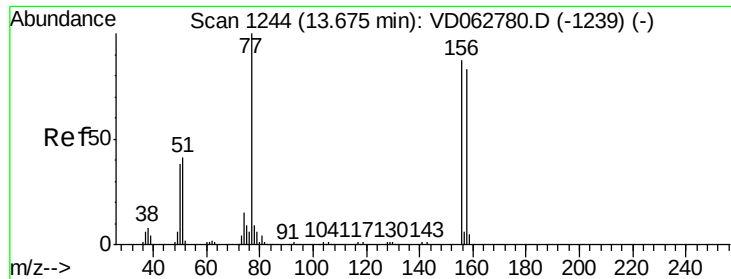
77 30.3 15.0 45.1



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

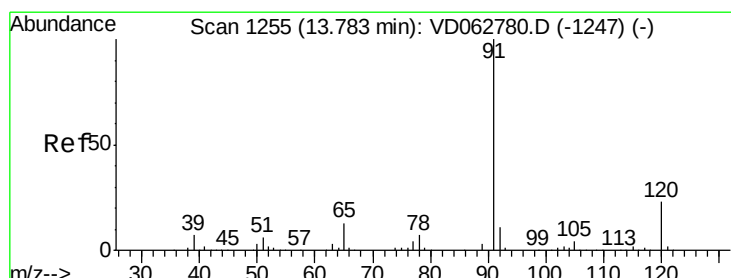
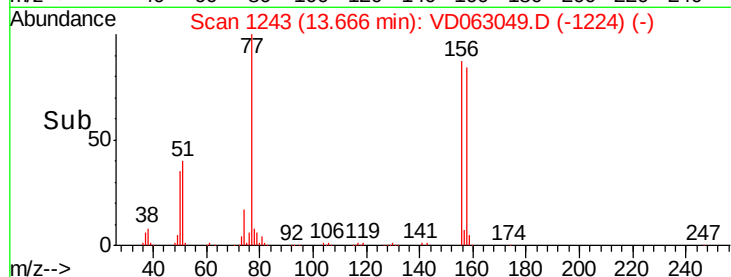
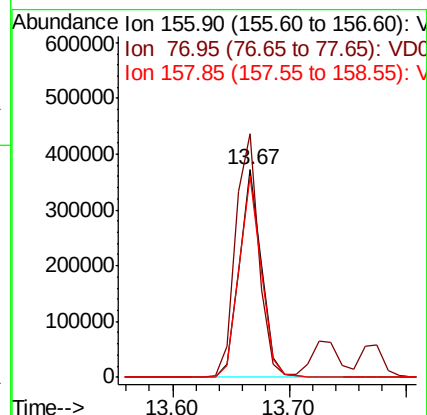
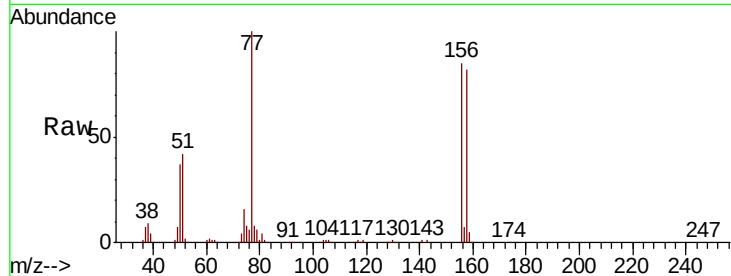




#77
Bromobenzene
Concen: 56.199 ug/l
RT: 13.67 min Scan# 1243
Delta R.T. -0.01 min
Lab File: VD063049.D
Acq: 8 Jul 2019 21:02

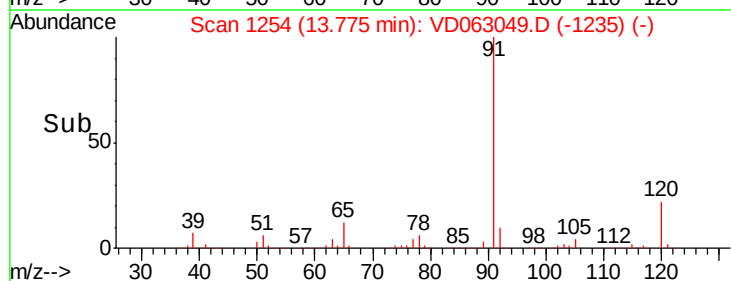
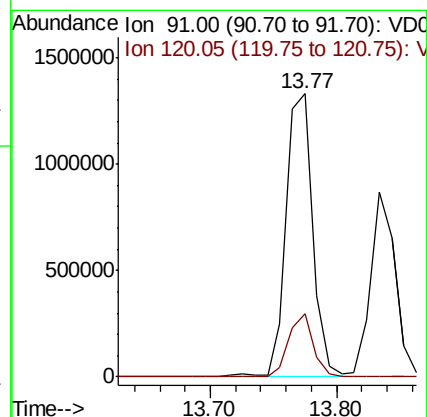
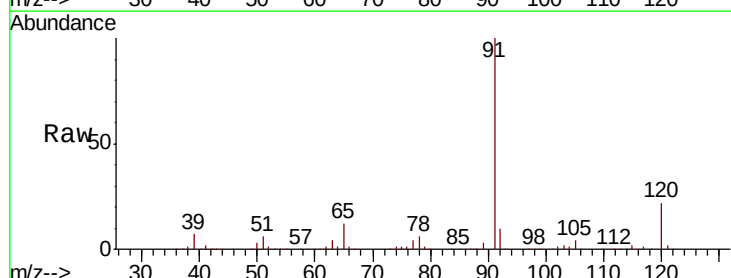
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

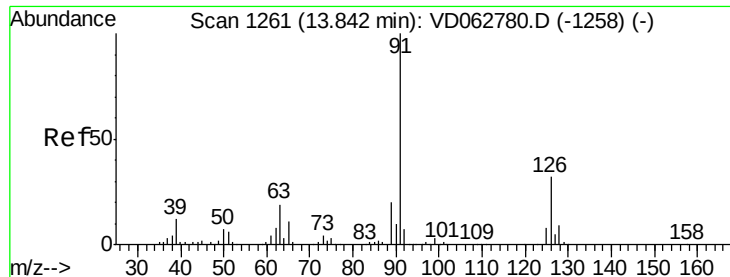
Tot Ion:156 Resp: 490910
Ion Ratio Lower Upper
156 100
77 117.2 57.7 173.1
158 96.7 47.7 143.1



#78
n-propylbenzene
Concen: 51.811 ug/l
RT: 13.77 min Scan# 1254
Delta R.T. -0.01 min
Lab File: VD063049.D
Acq: 8 Jul 2019 21:02

Tgt Ion: 91 Resp: 1958437
Ion Ratio Lower Upper
91 100
120 22.3 11.3 33.8





#79

2-Chlorotoluene

Concen: 53.998 ug/l

RT: 13.83 min Scan# 1260

Delta R.T. -0.01 min

Lab File: VD063049.D

Acq: 8 Jul 2019 21:02

Instrument :

MSVOA_D

ClientSampleId :

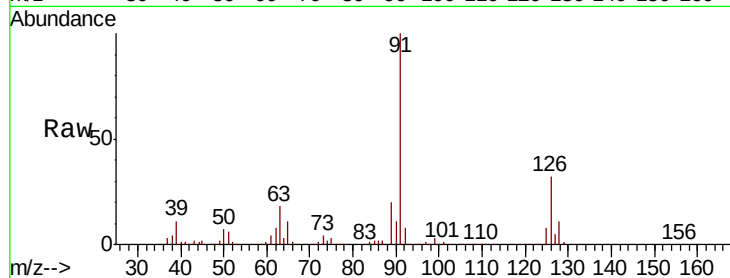
VSTDCCC050EC

Tot Ion: 91 Resp: 1166447

Ion Ratio Lower Upper

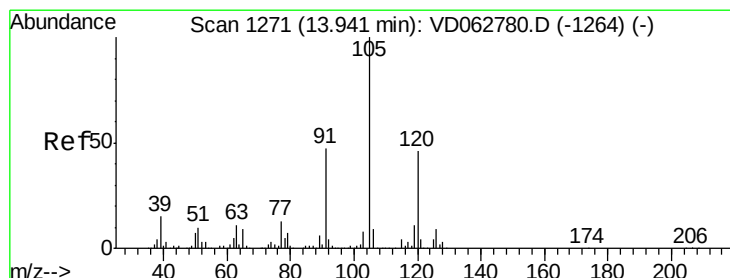
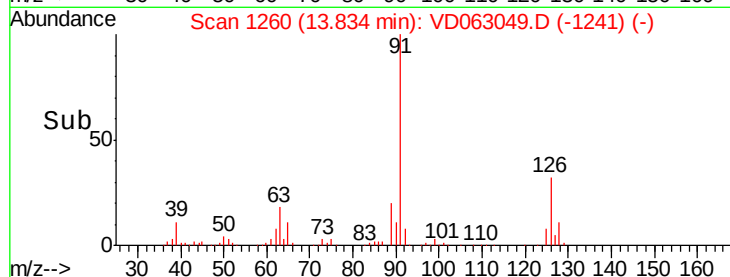
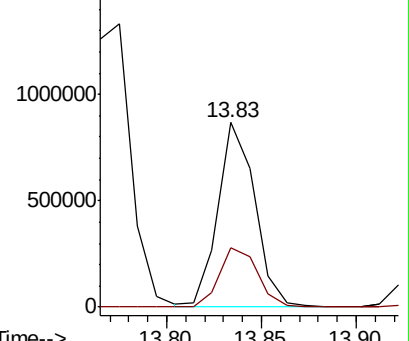
91 100

126 32.3 15.7 47.1



Abundance Ion 91.00 (90.70 to 91.70): VD062780.D (-1258) (-)

Ion 125.95 (125.65 to 126.65): VD062780.D (-1258) (-)



#80

1,3,5-Trimethylbenzene

Concen: 49.170 ug/l

RT: 13.93 min Scan# 1270

Delta R.T. -0.01 min

Lab File: VD063049.D

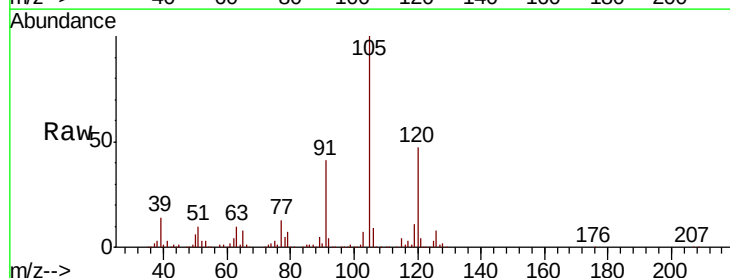
Acq: 8 Jul 2019 21:02

Tgt Ion:105 Resp: 1341312

Ion Ratio Lower Upper

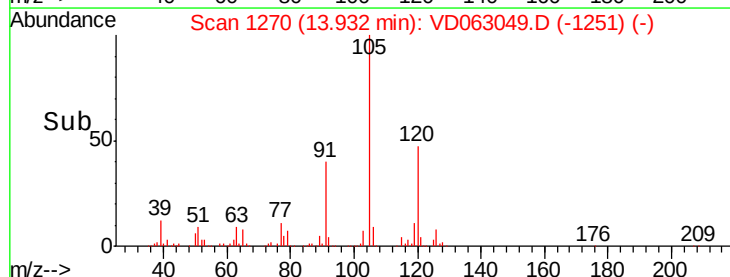
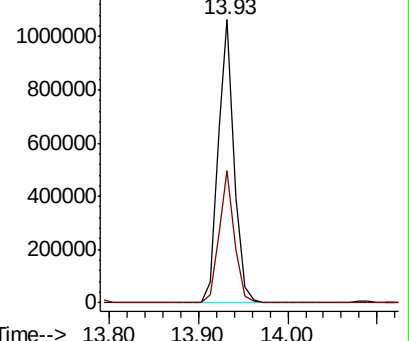
105 100

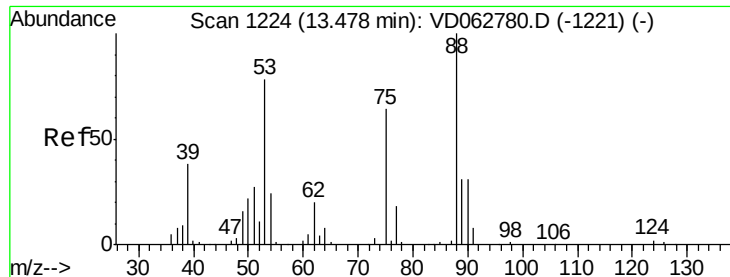
120 46.9 23.1 69.2



Abundance Ion 105.05 (104.75 to 105.75): VD062780.D (-1264) (-)

Ion 120.05 (119.75 to 120.75): VD062780.D (-1264) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 56.937 ug/l

RT: 13.47 min Scan# 1223

Delta R.T. -0.01 min

Lab File: VD063049.D

Acq: 8 Jul 2019 21:02

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

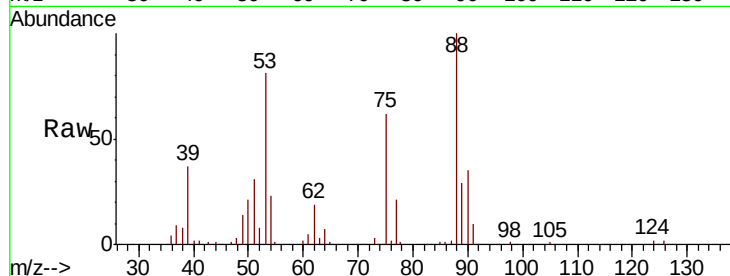
Tot Ion: 75 Resp: 87255

Ion Ratio Lower Upper

75 100

53 130.5 97.8 146.8

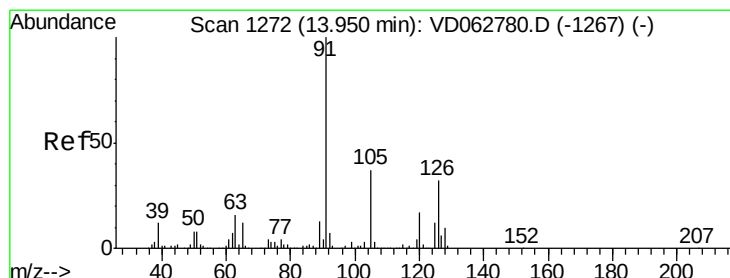
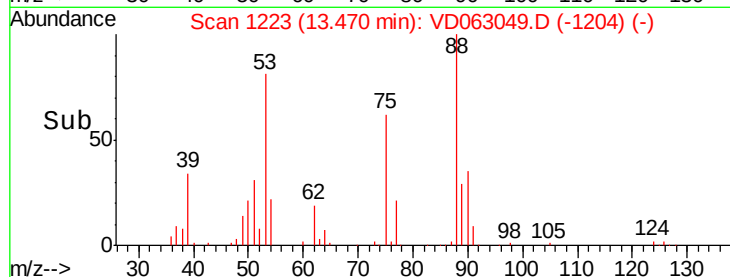
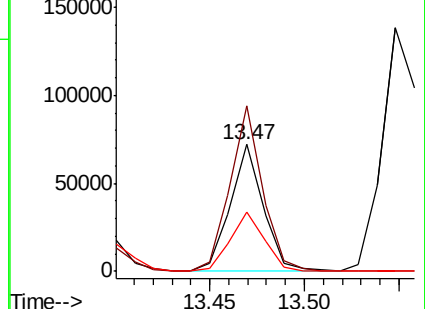
89 47.1 39.4 59.2



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: 49.196 ug/l

RT: 13.94 min Scan# 1271

Delta R.T. -0.01 min

Lab File: VD063049.D

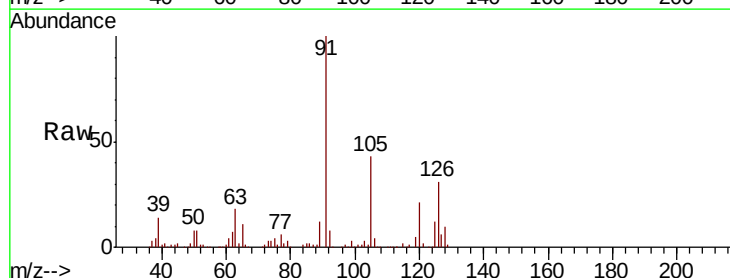
Acq: 8 Jul 2019 21:02

Tgt Ion: 91 Resp: 1279407

Ion Ratio Lower Upper

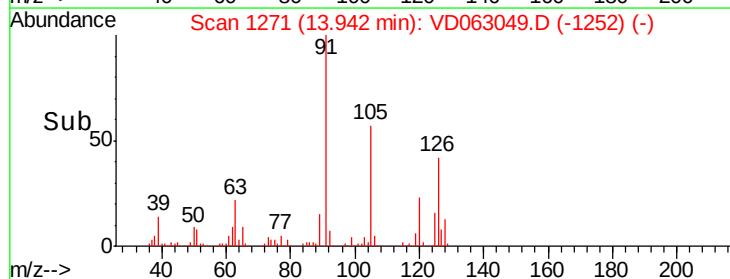
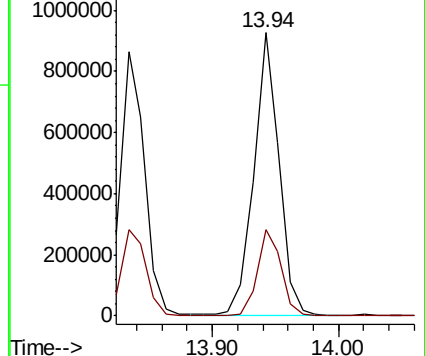
91 100

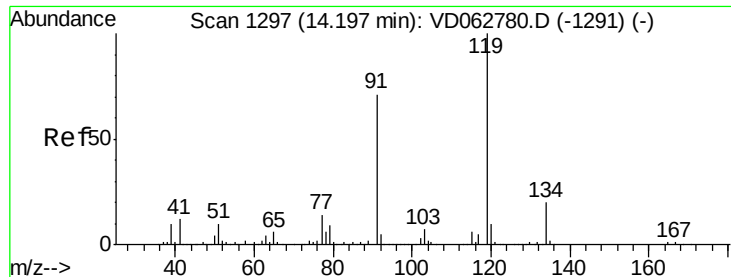
126 30.6 16.0 47.9



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V

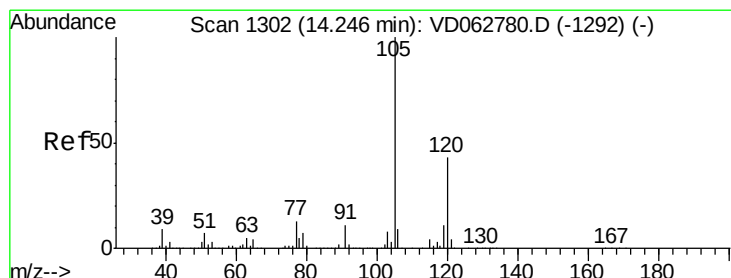
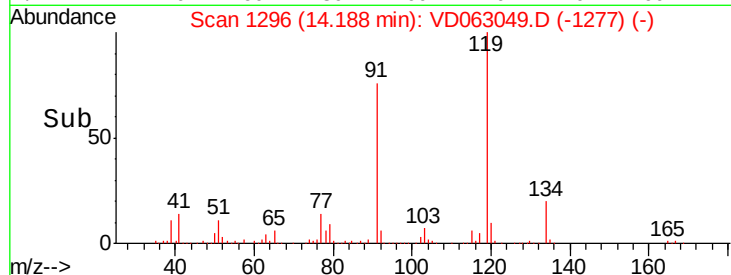
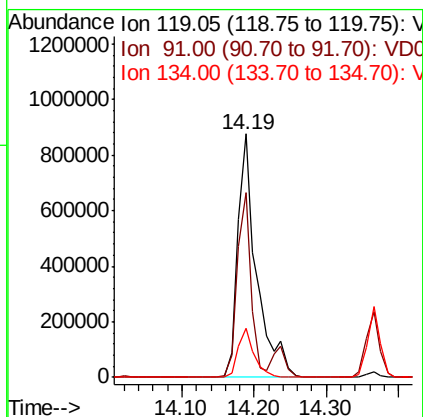
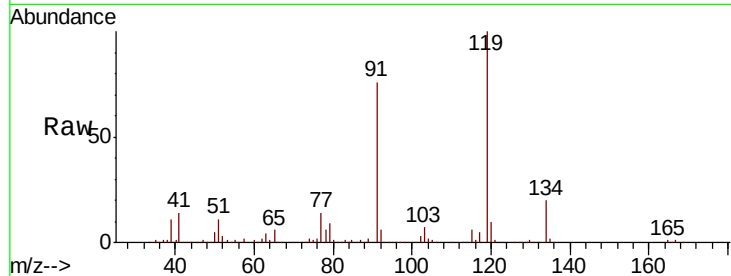




#83
 tert-Butylbenzene
 Concen: 52.500 ug/l
 RT: 14.19 min Scan# 1296
 Delta R.T. -0.01 min
 Lab File: VD063049.D
 Acq: 8 Jul 2019 21:02

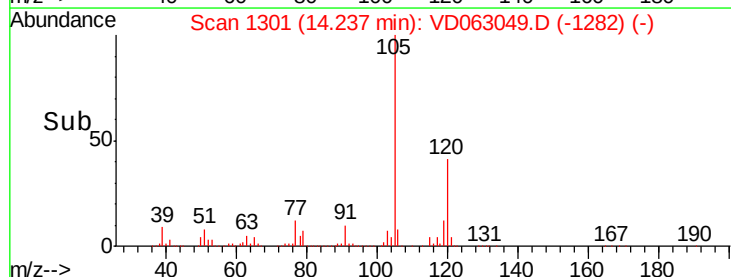
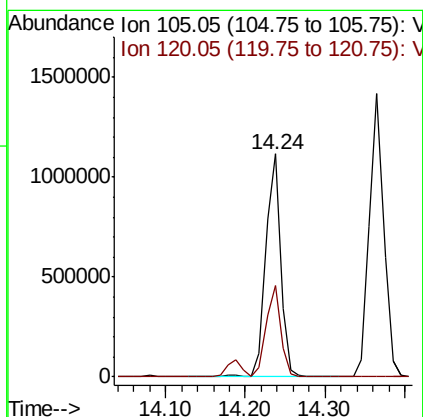
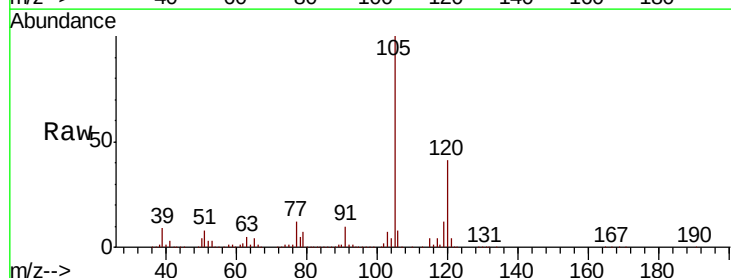
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

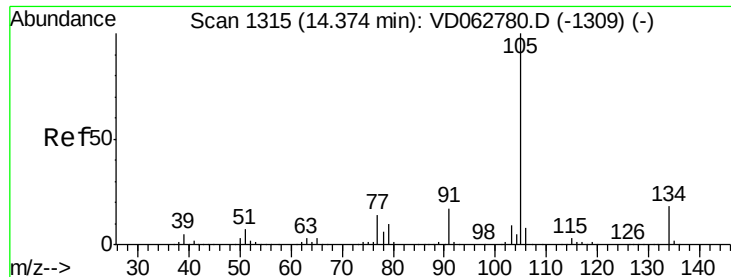
Tot Ion:119 Resp: 1596349
 Ion Ratio Lower Upper
 119 100
 91 76.1 35.5 106.5
 134 20.1 10.2 30.6



#84
 1,2,4-Trimethylbenzene
 Concen: 51.712 ug/l
 RT: 14.24 min Scan# 1301
 Delta R.T. -0.01 min
 Lab File: VD063049.D
 Acq: 8 Jul 2019 21:02

Tgt Ion:105 Resp: 1445851
 Ion Ratio Lower Upper
 105 100
 120 41.2 21.3 63.9

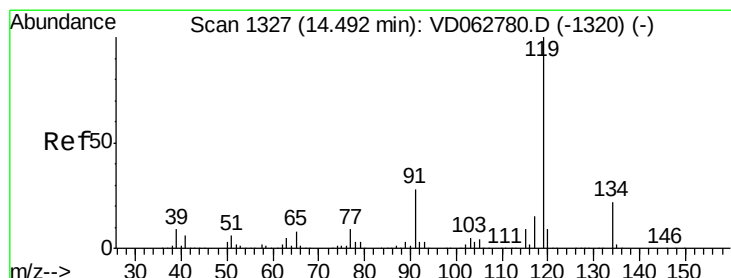
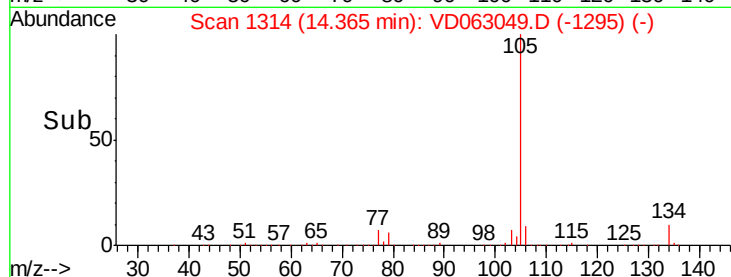
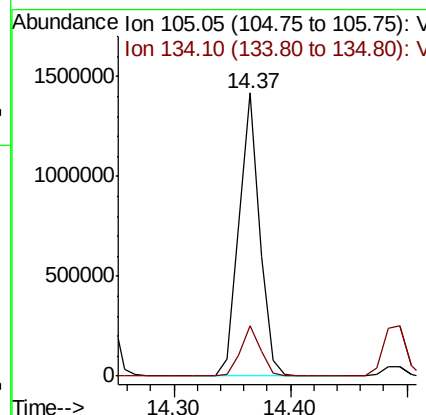
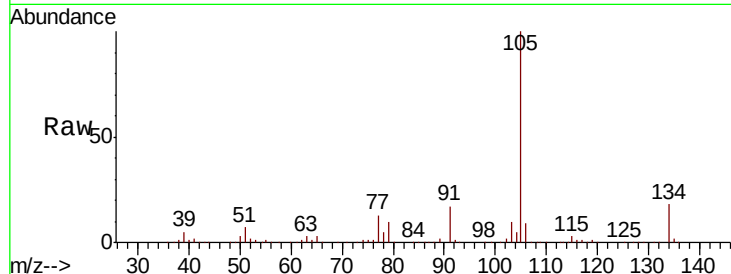




#85
 sec-Butylbenzene
 Concen: 52.772 ug/l
 RT: 14.37 min Scan# 1314
 Delta R.T. -0.01 min
 Lab File: VD063049.D
 Acq: 8 Jul 2019 21:02

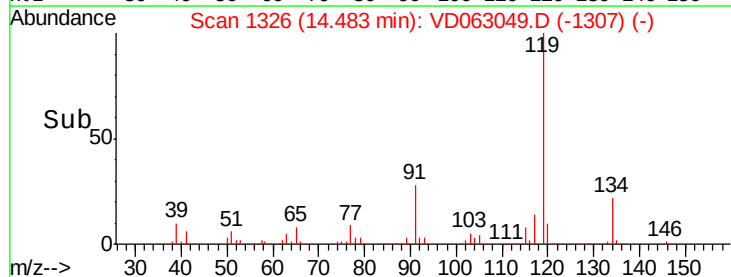
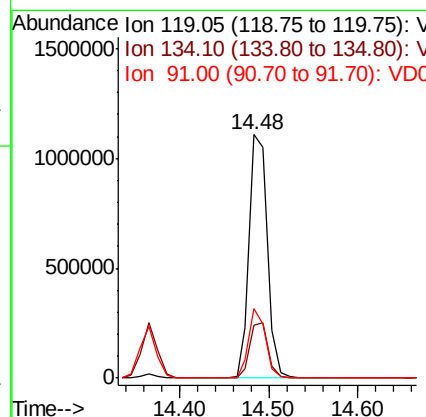
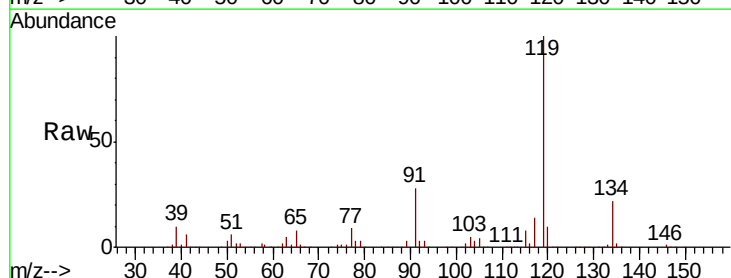
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

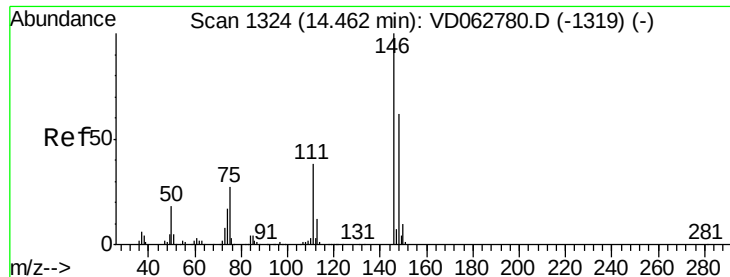
Tot Ion:105 Resp: 1743989
 Ion Ratio Lower Upper
 105 100
 134 17.9 9.1 27.3



#86
 p-Isopropyltoluene
 Concen: 51.886 ug/l
 RT: 14.48 min Scan# 1326
 Delta R.T. -0.01 min
 Lab File: VD063049.D
 Acq: 8 Jul 2019 21:02

Tgt Ion:119 Resp: 1568702
 Ion Ratio Lower Upper
 119 100
 134 21.6 11.1 33.1
 91 28.3 14.0 41.9





#87

1,3-Dichlorobenzene

Concen: 52.002 ug/l

RT: 14.45 min Scan# 1323

Delta R.T. -0.01 min

Lab File: VD063049.D

Acq: 8 Jul 2019 21:02

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

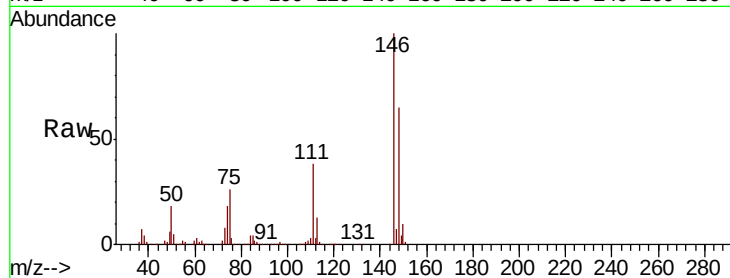
Tot Ion:146 Resp: 814272

Ion Ratio Lower Upper

146 100

111 37.9 19.0 57.0

148 64.7 30.8 92.3



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

800000

600000

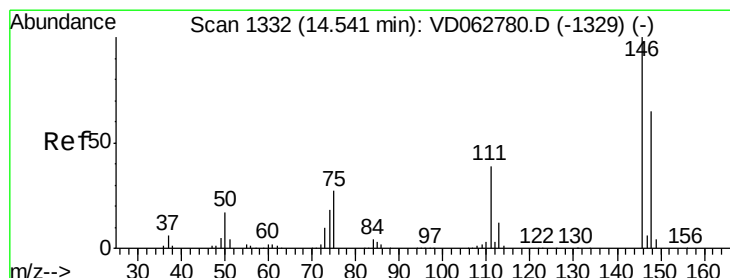
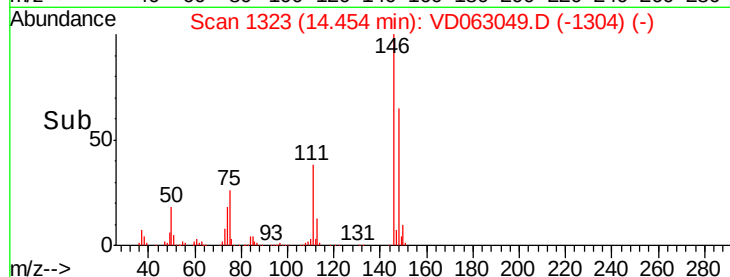
400000

200000

0

14.40 14.45 14.50

Time-->



#88

1,4-Dichlorobenzene

Concen: 51.783 ug/l

RT: 14.53 min Scan# 1331

Delta R.T. -0.01 min

Lab File: VD063049.D

Acq: 8 Jul 2019 21:02

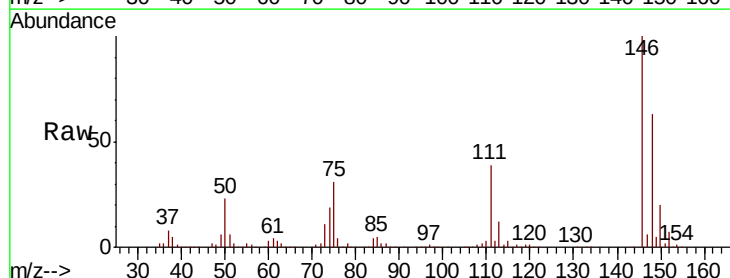
Tgt Ion:146 Resp: 814414

Ion Ratio Lower Upper

146 100

111 39.1 19.7 59.1

148 63.2 32.8 98.3



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

800000

600000

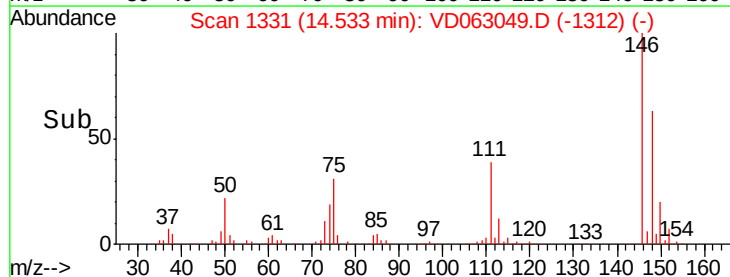
400000

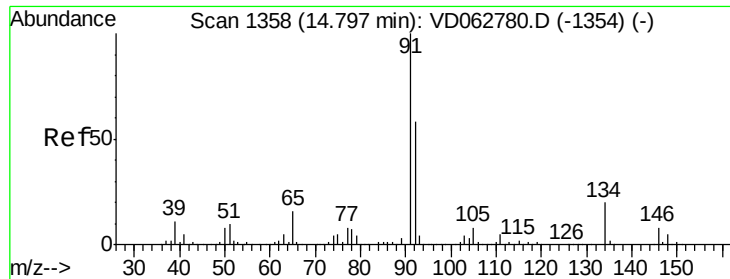
200000

0

14.50 14.53 14.56

Time-->





#89

n-Butylbenzene

Concen: 51.597 ug/l

RT: 14.80 min Scan# 1358

Delta R.T. 0.00 min

Lab File: VD063049.D

Acq: 8 Jul 2019 21:02

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

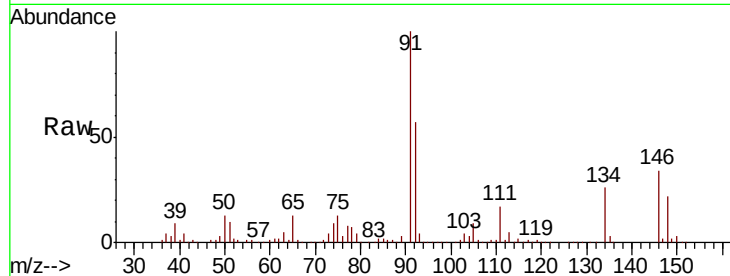
Tot Ion: 91 Resp: 1460048

Ion Ratio Lower Upper

91 100

92 57.2 28.9 86.7

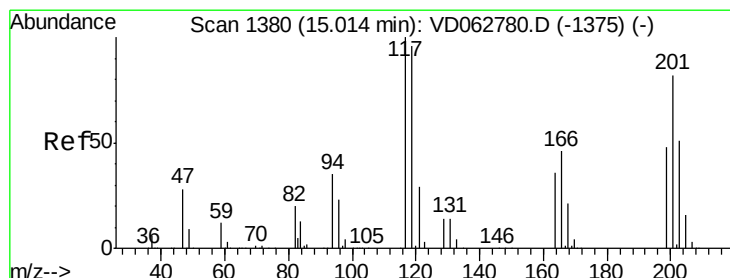
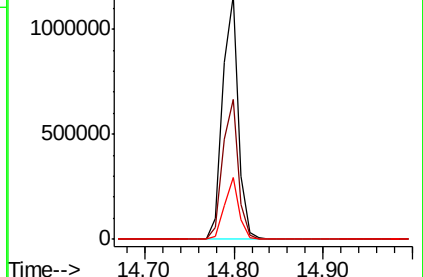
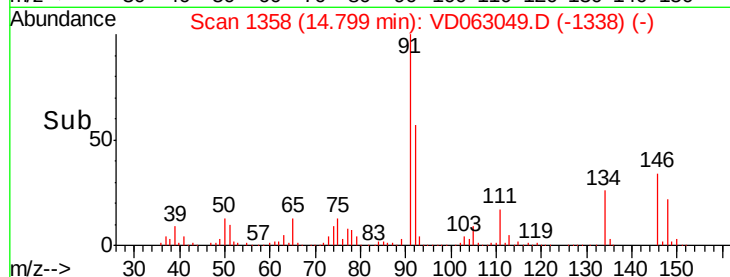
134 25.5 10.1 30.3



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: 54.757 ug/l

RT: 15.01 min Scan# 1379

Delta R.T. -0.01 min

Lab File: VD063049.D

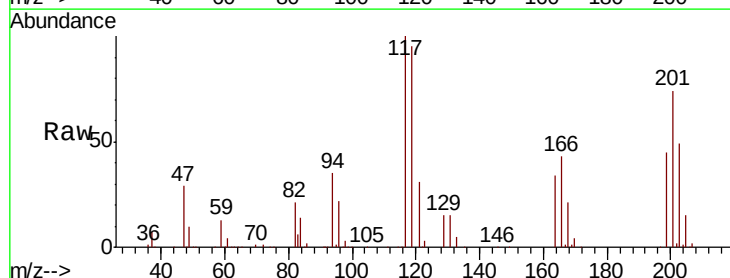
Acq: 8 Jul 2019 21:02

Tgt Ion: 117 Resp: 445115

Ion Ratio Lower Upper

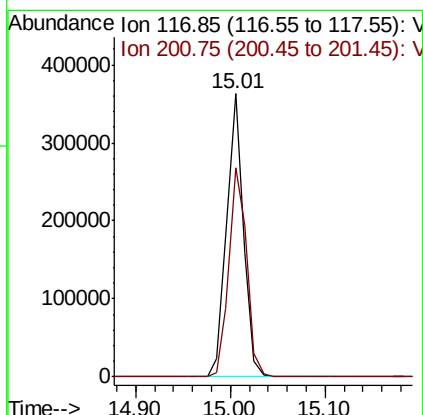
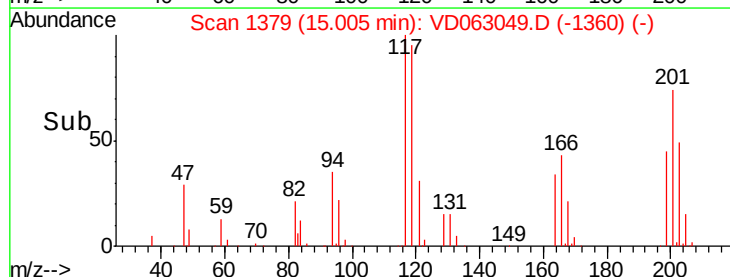
117 100

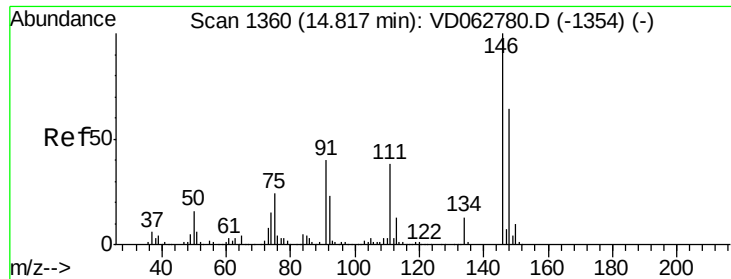
201 73.7 40.8 122.2



Abundance Ion 116.85 (116.55 to 117.55): VDC

Ion 200.75 (200.45 to 201.45): VDC

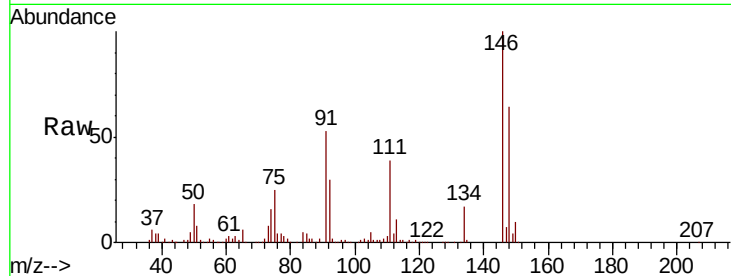




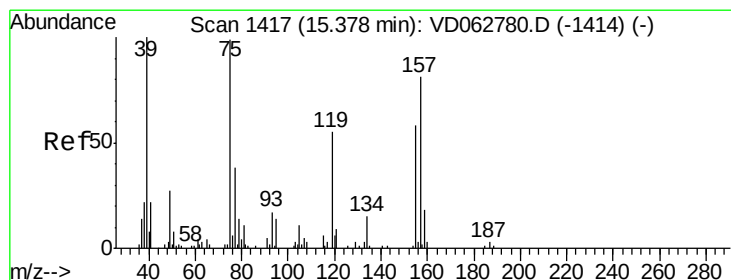
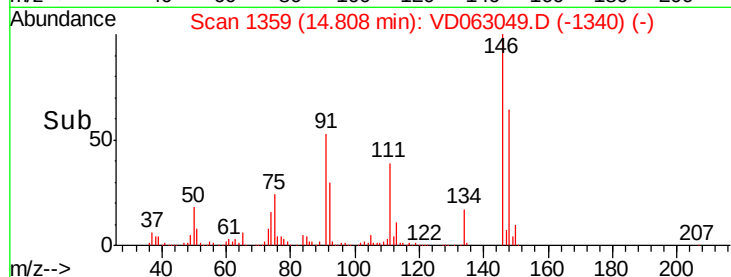
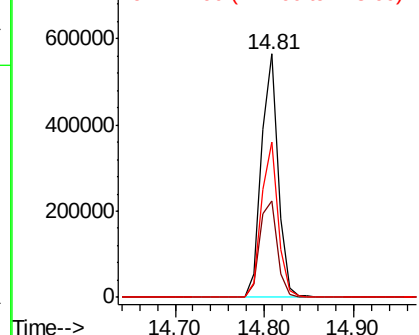
#91
 1,2-Dichlorobenzene
 Concen: 54.429 ug/l
 RT: 14.81 min Scan# 1359
 Delta R.T. -0.01 min
 Lab File: VD063049.D
 Acq: 8 Jul 2019 21:02

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

Tot Ion:146 Resp: 729191
 Ion Ratio Lower Upper
 146 100
 111 39.4 19.1 57.1
 148 63.9 32.3 96.8

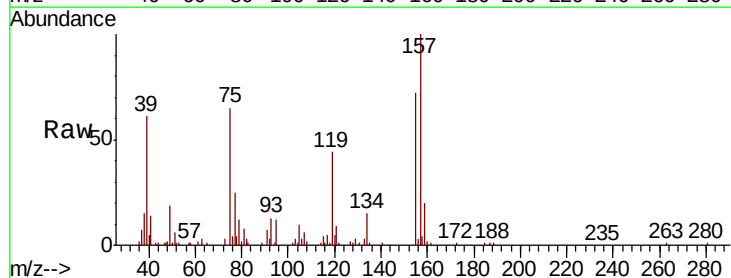


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

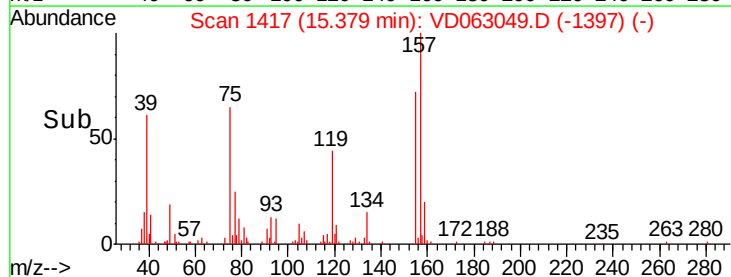
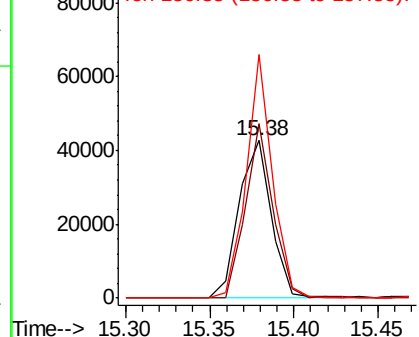


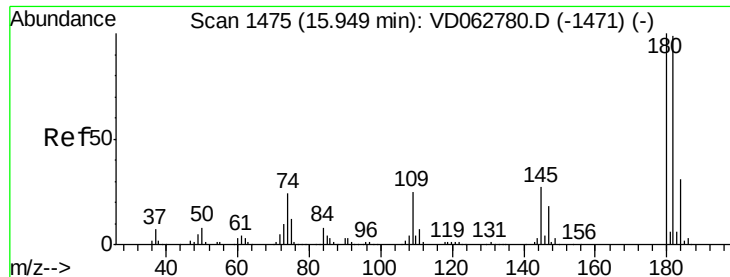
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 54.878 ug/l
 RT: 15.38 min Scan# 1417
 Delta R.T. 0.00 min
 Lab File: VD063049.D
 Acq: 8 Jul 2019 21:02

Tgt Ion: 75 Resp: 56678
 Ion Ratio Lower Upper
 75 100
 155 110.5 29.3 87.8#
 157 154.5 41.3 123.7#



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

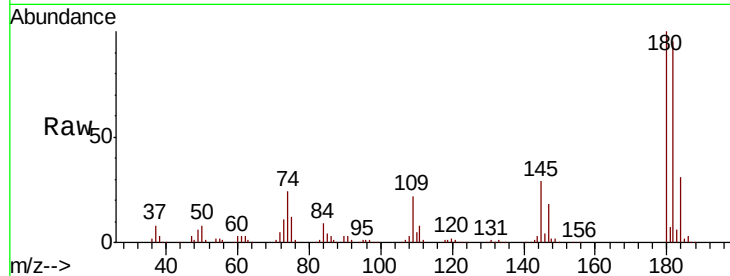




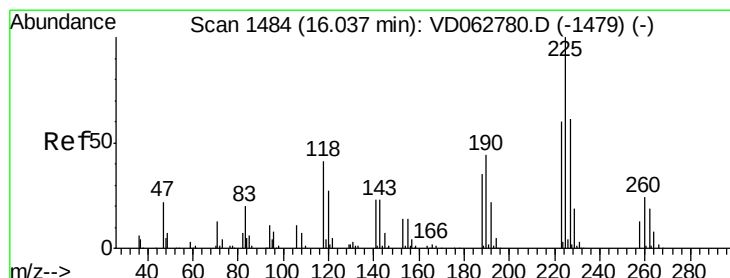
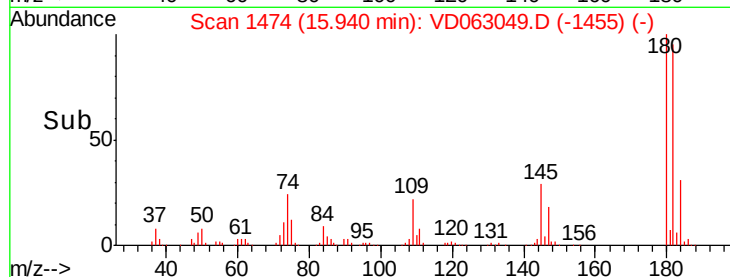
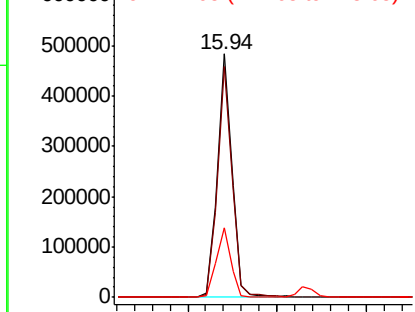
#93
 1,2,4-Trichlorobenzene
 Concen: 53.161 ug/l
 RT: 15.94 min Scan# 1474
 Delta R.T. -0.01 min
 Lab File: VD063049.D
 Acq: 8 Jul 2019 21:02

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

Tot Ion:180 Resp: 556342
 Ion Ratio Lower Upper
 180 100
 182 94.7 49.5 148.5
 145 28.5 13.7 41.0

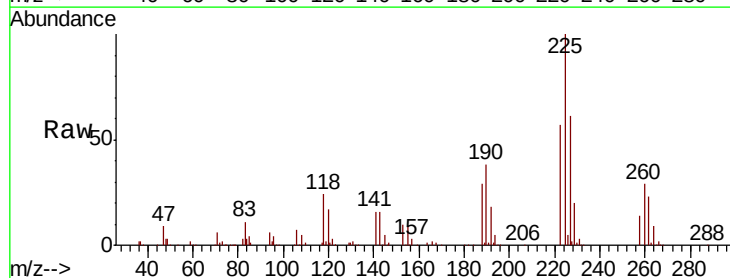


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

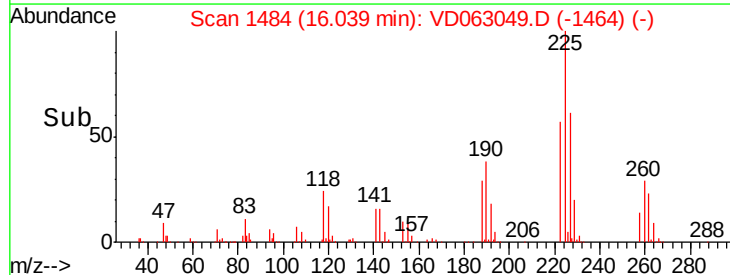
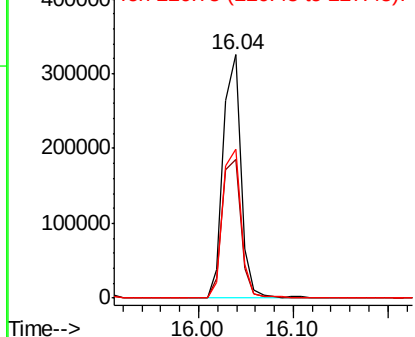


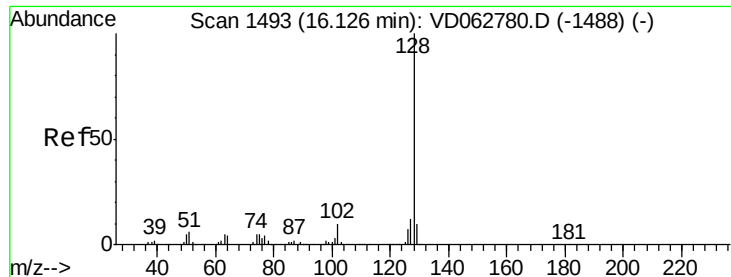
#94
 Hexachlorobutadiene
 Concen: 53.127 ug/l
 RT: 16.04 min Scan# 1484
 Delta R.T. 0.00 min
 Lab File: VD063049.D
 Acq: 8 Jul 2019 21:02

Tgt Ion:225 Resp: 424749
 Ion Ratio Lower Upper
 225 100
 223 57.2 29.8 89.5
 227 61.0 30.6 91.6



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

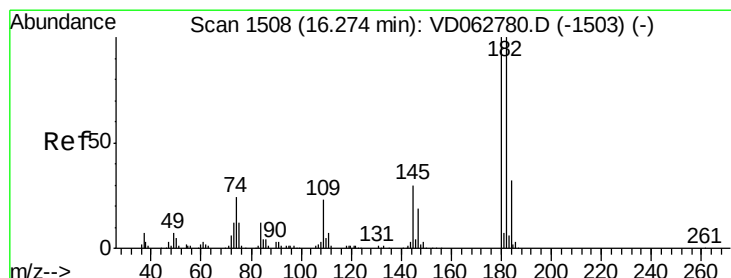
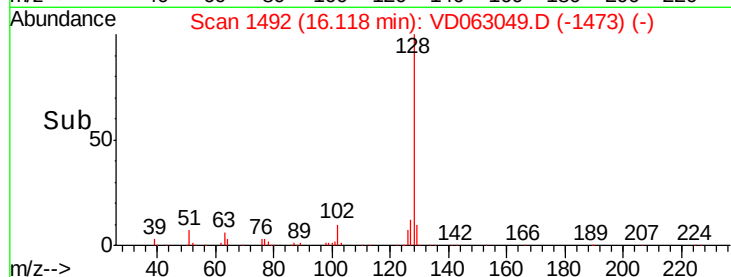
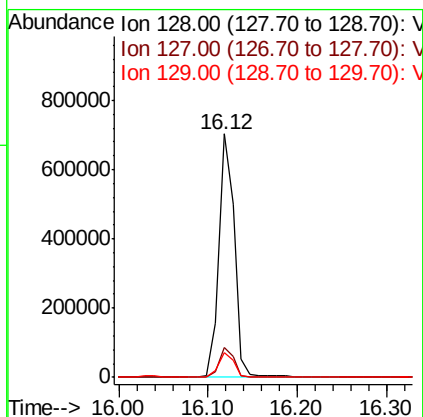
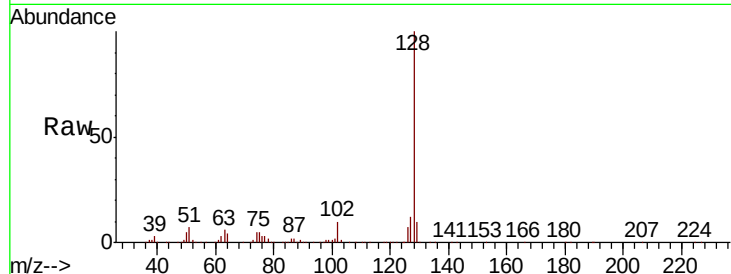




#95
Naphthalene
Concen: 58.619 ug/l
RT: 16.12 min Scan# 1492
Delta R.T. -0.01 min
Lab File: VD063049.D
Acq: 8 Jul 2019 21:02

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion:128 Resp: 859831
Ion Ratio Lower Upper
128 100
127 12.3 9.7 14.5
129 10.3 8.3 12.5



#96
1,2,3-Trichlorobenzene
Concen: 54.991 ug/l
RT: 16.27 min Scan# 1507
Delta R.T. -0.01 min
Lab File: VD063049.D
Acq: 8 Jul 2019 21:02

Tgt Ion:180 Resp: 442177
Ion Ratio Lower Upper
180 100
182 98.8 49.9 149.6
145 31.1 15.2 45.5

