

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD071519\
 Data File : VD063081.D
 Acq On : 15 Jul 2019 15:32
 Operator : VA/AP
 Sample : VSTDICV050
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 ICVVD071519

Quant Time: Jul 16 08:20:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D071519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 08:11:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	761790	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.21	114	1012278	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.36	117	808399	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	439095	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	402313	42.40	ug/l	0.00
Spiked Amount			Recovery	=	84.80%	
35) Dibromofluoromethane	6.91	113	431045	42.75	ug/l	0.00
Spiked Amount			Recovery	=	85.50%	
50) Toluene-d8	10.41	98	927993	42.85	ug/l	0.01
Spiked Amount			Recovery	=	85.70%	
62) 4-Bromofluorobenzene	13.55	95	410558	40.98	ug/l	0.00
Spiked Amount			Recovery	=	81.96%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.57	85	455894	55.933	ug/l	99
3) Chloromethane	1.75	50	346765	50.309	ug/l #	79
4) Vinyl Chloride	1.84	62	402251	49.475	ug/l	95
5) Bromomethane	2.15	94	180287	58.742	ug/l	87
6) Chloroethane	2.27	64	189911	50.284	ug/l	91
7) Trichlorofluoromethane	2.52	101	846264	51.417	ug/l	93
8) Diethyl Ether	2.87	74	118764	51.297	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.14	101	452389	47.668	ug/l	98
10) Methyl Iodide	3.29	142	614570	52.748	ug/l	97
11) Tert butyl alcohol	4.07	59	130449	238.196	ug/l #	93
12) 1,1-Dichloroethene	3.11	96	331861	49.243	ug/l	94
13) Acrolein	3.04	56	24030	145.380	ug/l	84
14) Allyl chloride	3.61	41	526869	49.743	ug/l	98
15) Acrylonitrile	4.19	53	306271	252.993	ug/l	99
16) Acetone	3.21	43	584150	254.864	ug/l	97
17) Carbon Disulfide	3.36	76	916395	47.506	ug/l	98
18) Methyl Acetate	3.64	43	157120	51.216	ug/l #	89
19) Methyl tert-butyl Ether	4.24	73	856676	50.357	ug/l	100
20) Methylene Chloride	3.80	84	372179	42.982	ug/l	96
21) trans-1,2-Dichloroethene	4.21	96	376316	50.301	ug/l	98
22) Diisopropyl ether	5.11	45	1218870	52.929	ug/l	94
23) Vinyl Acetate	5.05	43	3677648	273.733	ug/l	99
24) 1,1-Dichloroethane	4.97	63	751895	53.005	ug/l	98
25) 2-Butanone	6.07	43	540558	246.979	ug/l	95
26) 2,2-Dichloropropane	6.01	77	808460	51.497	ug/l	99
27) cis-1,2-Dichloroethene	6.03	96	428806	50.386	ug/l	98
28) Bromochloromethane	6.43	49	211801	41.156	ug/l	94
29) Tetrahydrofuran	6.45	42	235341	237.205	ug/l	97
30) Chloroform	6.66	83	905520	51.833	ug/l	98
31) Cyclohexane	6.94	56	467627	51.764	ug/l	96
32) 1,1,1-Trichloroethane	6.85	97	865607	50.247	ug/l	97
36) 1,1-Dichloropropene	7.14	75	579769	50.924	ug/l	97
37) Ethyl Acetate	6.18	43	245923	50.472	ug/l	97
38) Carbon Tetrachloride	7.10	117	946215	54.696	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.85	83	487136	49.492	ug/l	95
40) Benzene	7.45	78	1164011	48.816	ug/l	97
41) Methacrylonitrile	6.44	41	313268	47.423	ug/l #	94
42) 1,2-Dichloroethane	7.57	62	656076	51.645	ug/l	95
43) Isopropyl Acetate	9.24	43	347171	49.710	ug/l #	99
44) Trichloroethene	8.53	130	499486	54.203	ug/l	100
45) 1,2-Dichloropropane	8.93	63	309062	51.987	ug/l	98
46) Dibromomethane	9.06	93	250213	48.978	ug/l	92
47) Bromodichloromethane	9.38	83	714998	53.633	ug/l	94
48) Methyl methacrylate	9.12	41	235320	51.309	ug/l	90
49) 1,4-Dioxane	9.07	88	38669	977.640	ug/l #	82
51) 4-Methyl-2-Pentanone	10.30	43	1221481	263.697	ug/l	95
52) Toluene	10.51	92	869489	54.607	ug/l	93
53) t-1,3-Dichloropropene	10.91	75	620882	54.361	ug/l	99
54) cis-1,3-Dichloropropene	10.03	75	589293	49.899	ug/l	97
55) 1,1,2-Trichloroethane	11.19	97	277001	50.340	ug/l	94
56) Ethyl methacrylate	11.04	69	293213	47.692	ug/l	95
57) 1,3-Dichloropropane	11.40	76	414323	49.483	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.86	63	861525	251.665	ug/l	99
59) 2-Hexanone	11.53	43	892190	249.749	ug/l	93
60) Dibromochloromethane	11.68	129	555642	52.678	ug/l	98
61) 1,2-Dibromoethane	11.80	107	333635	50.654	ug/l	93
64) Tetrachloroethene	11.26	164	403573	51.449	ug/l	96
65) Chlorobenzene	12.40	112	1013239	53.320	ug/l	99
66) 1,1,1,2-Tetrachloroethane	12.51	131	463279	52.583	ug/l	97
67) Ethyl Benzene	12.52	91	1673534	50.685	ug/l	100
68) m/p-Xylenes	12.66	106	1210251	102.337	ug/l	96
69) o-Xylene	13.05	106	596049	53.153	ug/l	94
70) Styrene	13.07	104	1049622	53.474	ug/l	98
71) Bromoform	13.23	173	335078	54.324	ug/l #	98
73) Isopropylbenzene	13.40	105	1753727	51.717	ug/l	99
74) N-amyl acetate	13.26	43	461862	48.837	ug/l	96
75) 1,1,2,2-Tetrachloroethane	13.70	83	315375	51.117	ug/l	92
76) 1,2,3-Trichloropropane	13.73	75	355148	52.579	ug/l	98
77) Bromobenzene	13.67	156	513520	53.401	ug/l	92
78) n-propylbenzene	13.77	91	2156127	55.253	ug/l	100
79) 2-Chlorotoluene	13.83	91	1246421	52.827	ug/l	100
80) 1,3,5-Trimethylbenzene	13.93	105	1628179	55.091	ug/l	97
81) trans-1,4-Dichloro-2-buten	13.47	75	88808	49.928	ug/l	96
82) 4-Chlorotoluene	13.94	91	1532495	55.622	ug/l	98
83) tert-Butylbenzene	14.19	119	1753442	52.471	ug/l	93
84) 1,2,4-Trimethylbenzene	14.24	105	1528429	51.874	ug/l	95
85) sec-Butylbenzene	14.37	105	1920542	54.092	ug/l	100
86) p-Isopropyltoluene	14.48	119	1759412	53.119	ug/l	98
87) 1,3-Dichlorobenzene	14.45	146	893779	52.045	ug/l	99
88) 1,4-Dichlorobenzene	14.53	146	855026	51.934	ug/l	95
89) n-Butylbenzene	14.79	91	1615169	52.906	ug/l	98
90) Hexachloroethane	15.01	117	463838	52.385	ug/l	96
91) 1,2-Dichlorobenzene	14.81	146	785743	51.382	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	15.38	75	59221	50.077	ug/l #	35

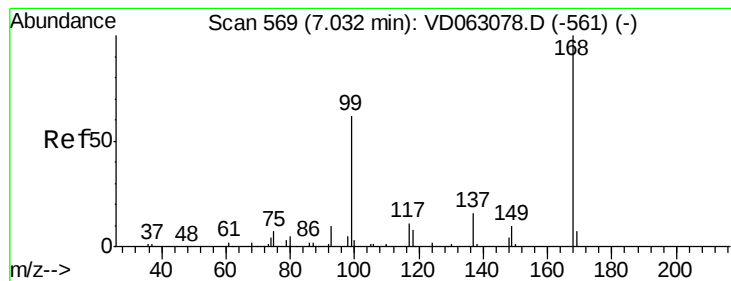
Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD071519\
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.94	180	623425	54.264	ug/l	98
94) Hexachlorobutadiene	16.03	225	476972	56.325	ug/l	97
95) Naphthalene	16.12	128	878882	52.297	ug/l	98
96) 1,2,3-Trichlorobenzene	16.27	180	488637	52.871	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: VD063081.D

Acq: 15 Jul 2019 15:32

Instrument :

MSVOA_D

ClientSampleId :

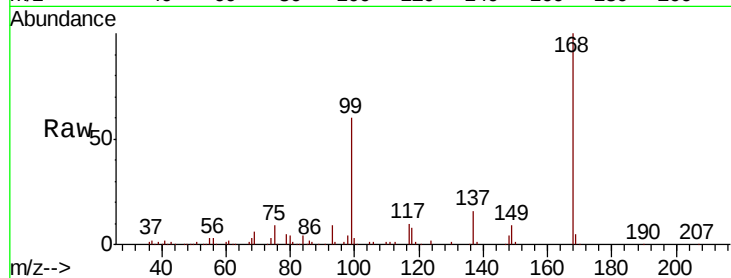
ICVVD071519

Tot Ion:168 Resp: 761790

Ion Ratio Lower Upper

168 100

99 59.9 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

300000

250000

200000

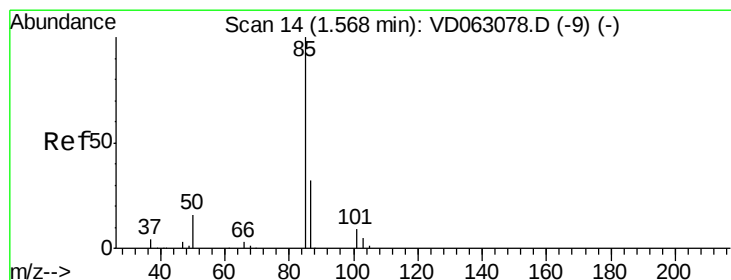
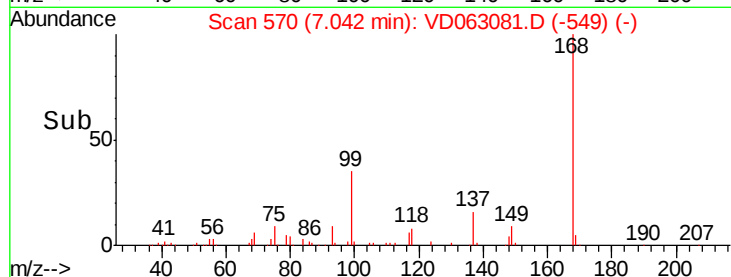
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 55.933 ug/l

RT: 1.57 min Scan# 14

Delta R.T. 0.00 min

Lab File: VD063081.D

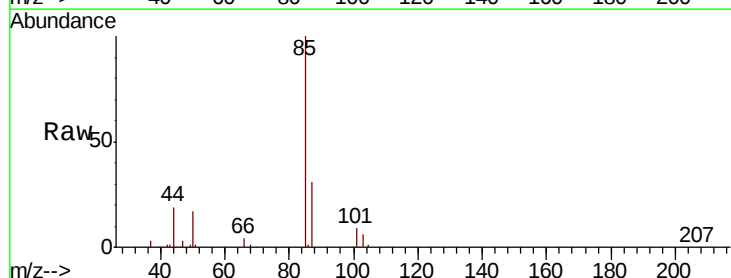
Acq: 15 Jul 2019 15:32

Tgt Ion: 85 Resp: 455894

Ion Ratio Lower Upper

85 100

87 31.3 15.9 47.7



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.57

250000

200000

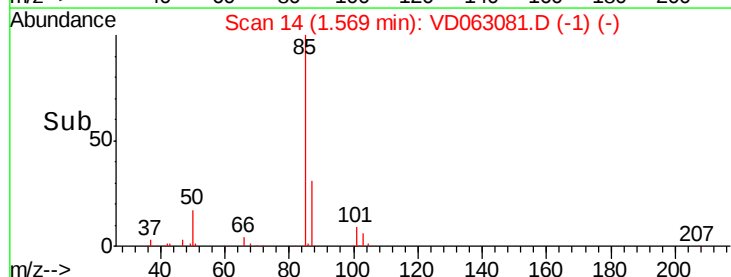
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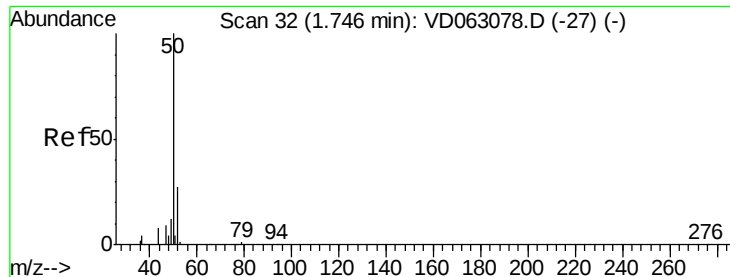
100000

50000

0

Time-->





#3

Chloromethane

Concen: 50.309 ug/l

RT: 1.75 min Scan# 32

Delta R.T. 0.00 min

Lab File: VD063081.D

Acq: 15 Jul 2019 15:32

Instrument :

MSVOA_D

ClientSampleId :

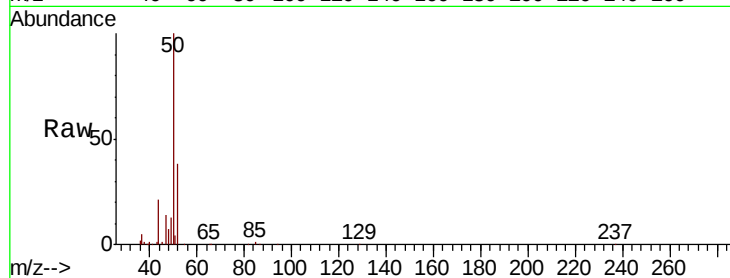
ICVVD071519

Tot Ion: 50 Resp: 346765

Ion Ratio Lower Upper

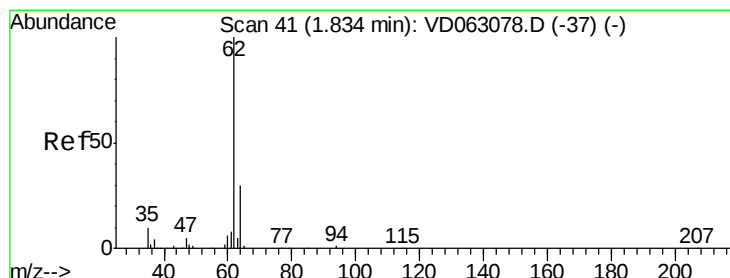
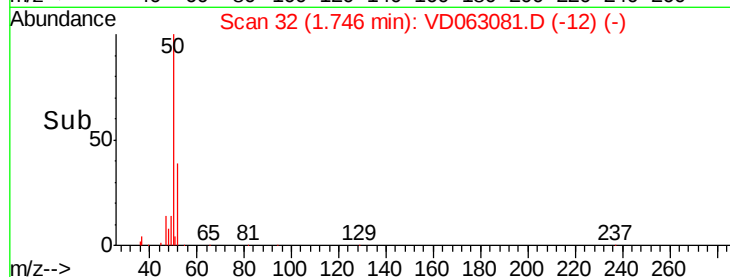
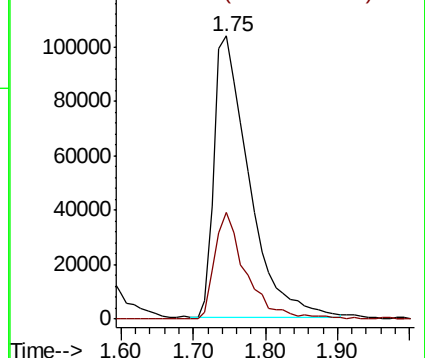
50 100

52 37.9 21.4 32.2#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 49.475 ug/l

RT: 1.84 min Scan# 42

Delta R.T. 0.01 min

Lab File: VD063081.D

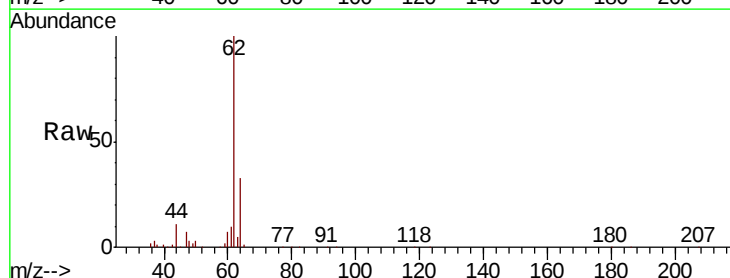
Acq: 15 Jul 2019 15:32

Tgt Ion: 62 Resp: 402251

Ion Ratio Lower Upper

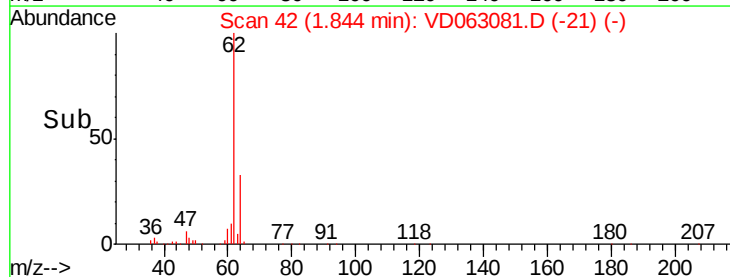
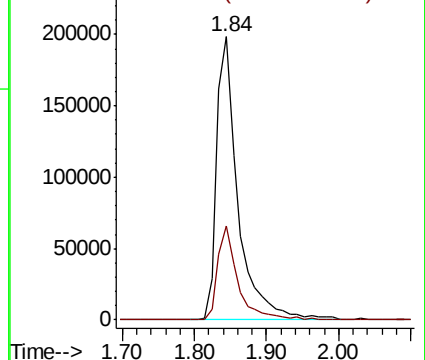
62 100

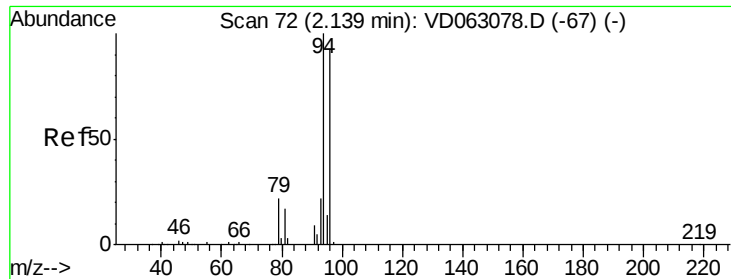
64 33.0 24.4 36.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 58.742 ug/l

RT: 2.15 min Scan# 73

Delta R.T. 0.01 min

Lab File: VD063081.D

Acq: 15 Jul 2019 15:32

Instrument :

MSVOA_D

ClientSampleId :

ICVVD071519

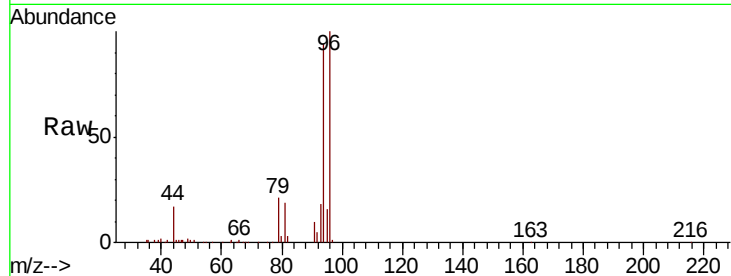
Tot Ion: 94 Resp: 180287

Ion Ratio Lower Upper

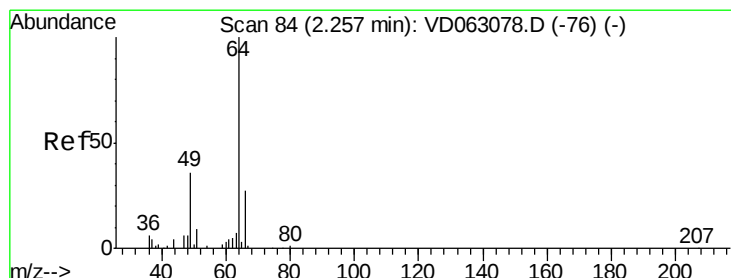
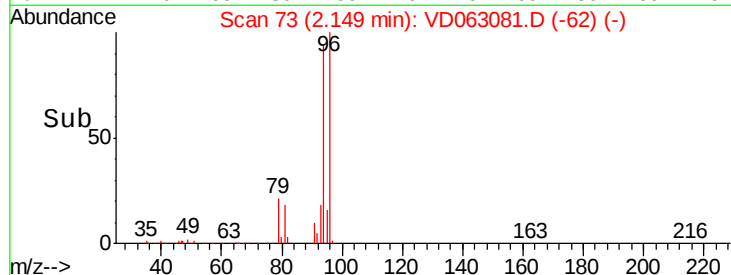
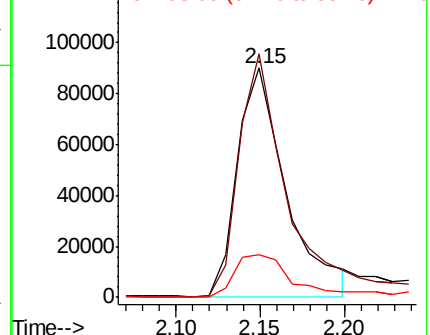
94 100

96 106.1 74.2 111.2

93 18.8 17.8 26.6



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: 50.284 ug/l

RT: 2.27 min Scan# 85

Delta R.T. 0.01 min

Lab File: VD063081.D

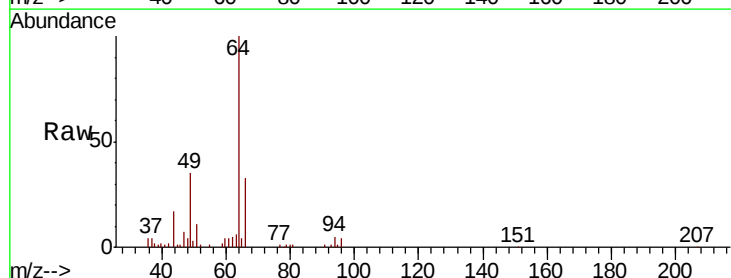
Acq: 15 Jul 2019 15:32

Tgt Ion: 64 Resp: 189911

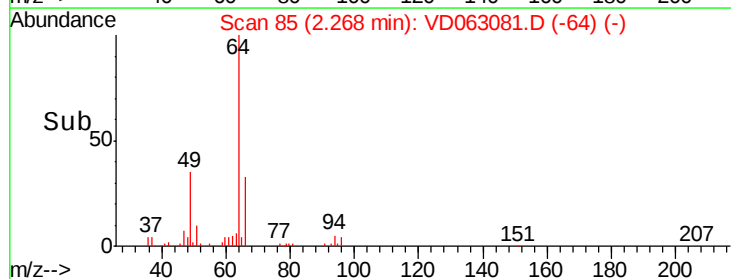
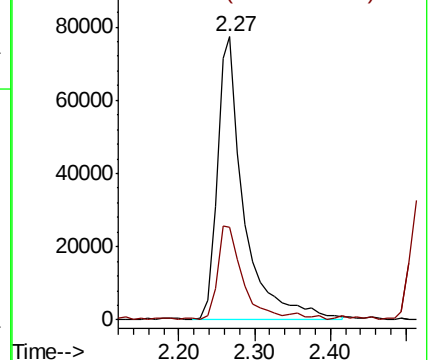
Ion Ratio Lower Upper

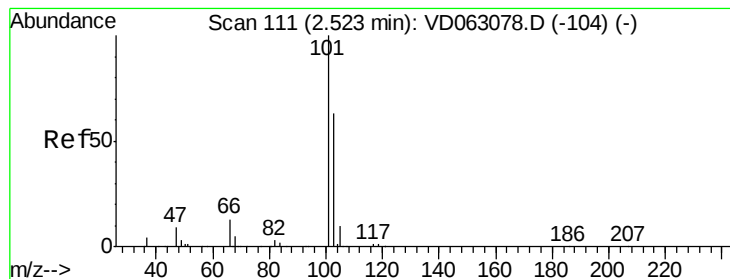
64 100

66 32.9 22.5 33.7



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



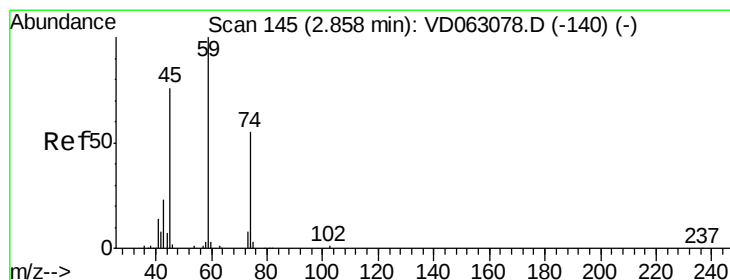
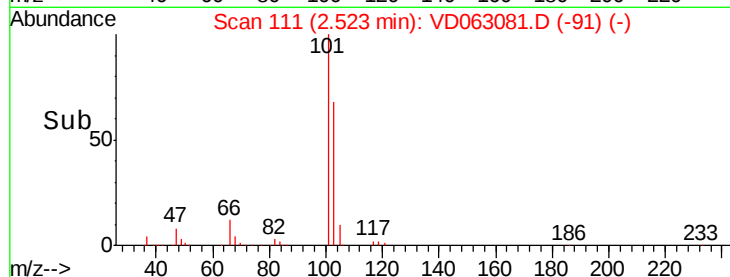
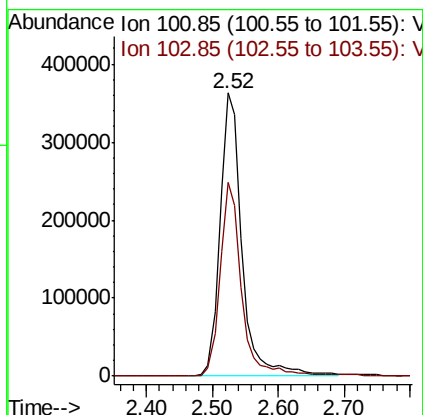
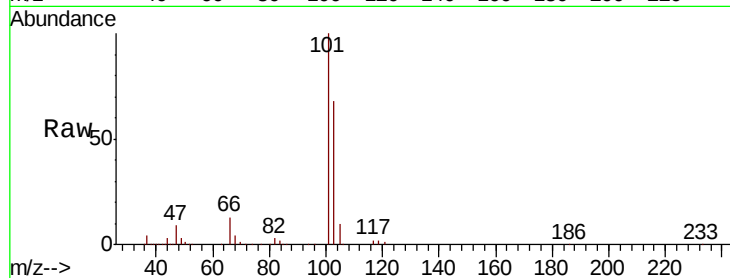


#7

Trichlorofluoromethane
 Concen: 51.417 ug/l
 RT: 2.52 min Scan# 111
 Delta R.T. 0.00 min
 Lab File: VD063081.D
 Acq: 15 Jul 2019 15:32

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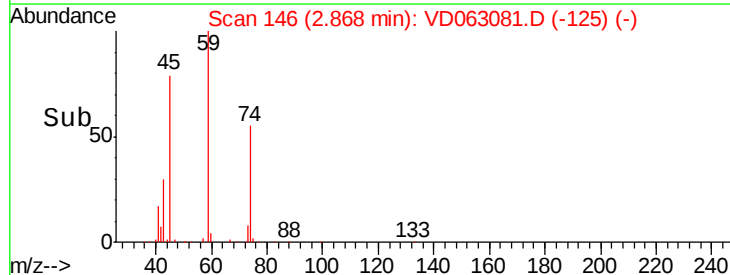
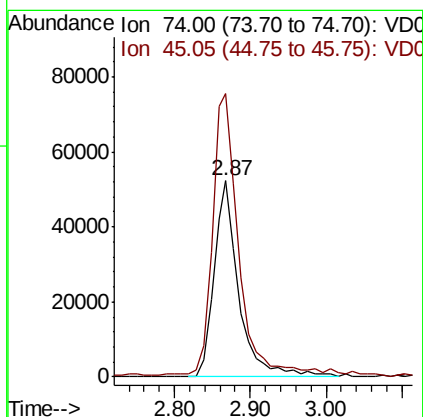
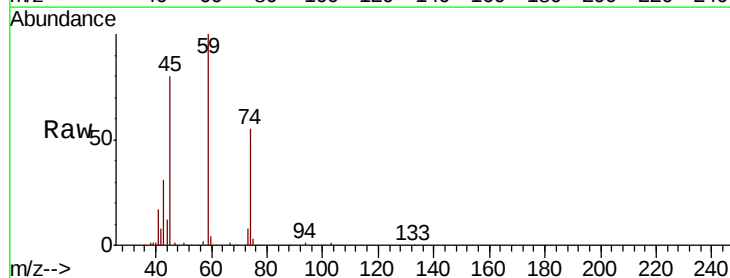
Tot Ion:101 Resp: 846264
 Ion Ratio Lower Upper
 101 100
 103 68.5 50.6 76.0

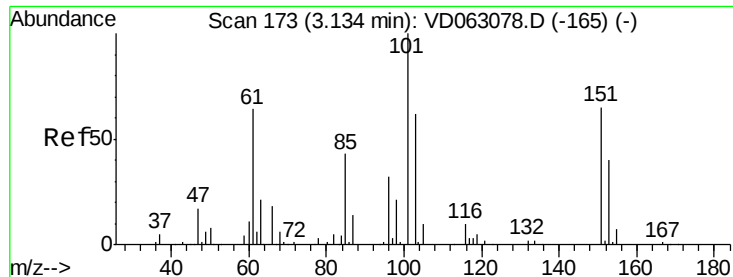


#8

Diethyl Ether
 Concen: 51.297 ug/l
 RT: 2.87 min Scan# 146
 Delta R.T. 0.01 min
 Lab File: VD063081.D
 Acq: 15 Jul 2019 15:32

Tgt Ion: 74 Resp: 118764
 Ion Ratio Lower Upper
 74 100
 45 144.2 69.5 208.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 47.668 ug/l

RT: 3.14 min Scan# 174

Delta R.T. 0.01 min

Lab File: VD063081.D

Acq: 15 Jul 2019 15:32

Instrument :

MSVOA_D

ClientSampleId :

ICVVD071519

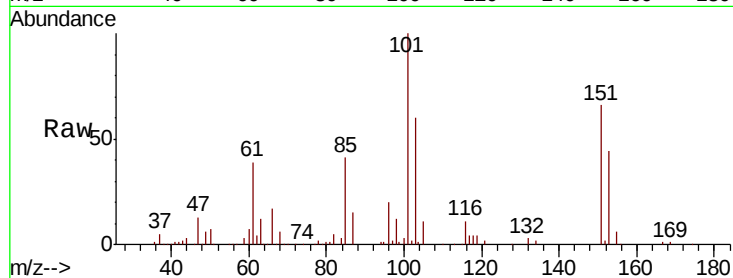
Tot Ion:101 Resp: 452389

Ion Ratio Lower Upper

101 100

85 40.6 34.6 51.8

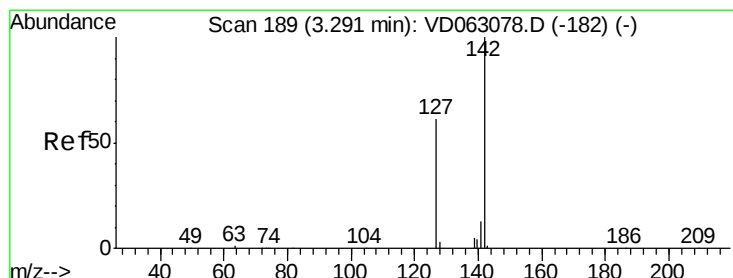
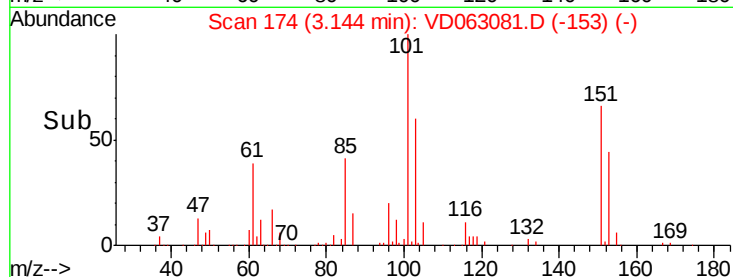
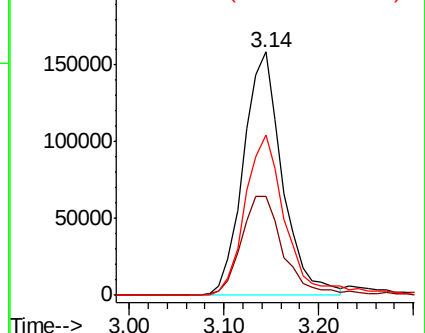
151 65.7 52.4 78.6



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: 52.748 ug/l

RT: 3.29 min Scan# 189

Delta R.T. 0.00 min

Lab File: VD063081.D

Acq: 15 Jul 2019 15:32

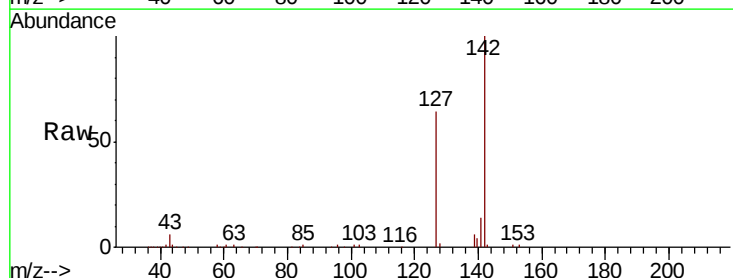
Tgt Ion:142 Resp: 614570

Ion Ratio Lower Upper

142 100

127 63.6 48.6 73.0

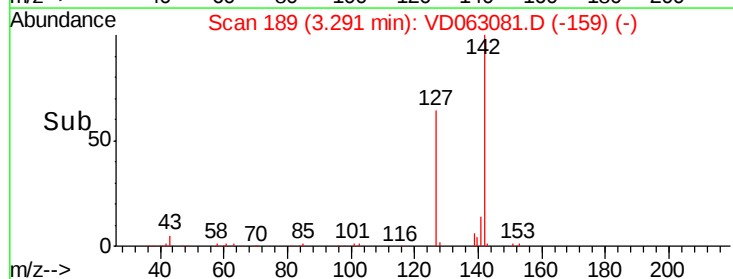
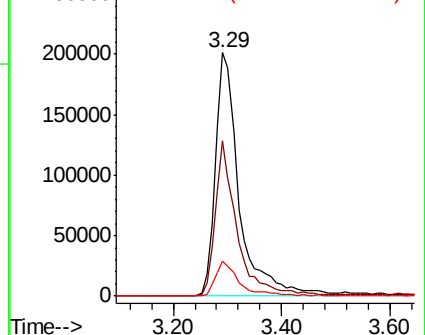
141 14.3 10.6 16.0

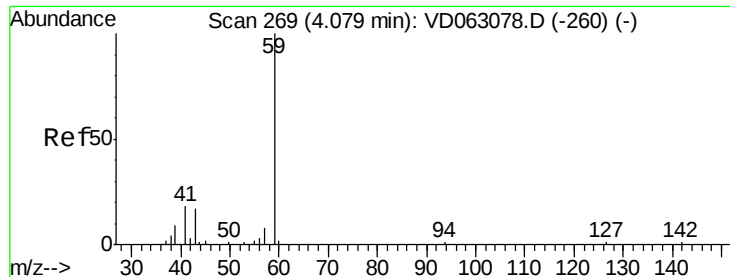


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

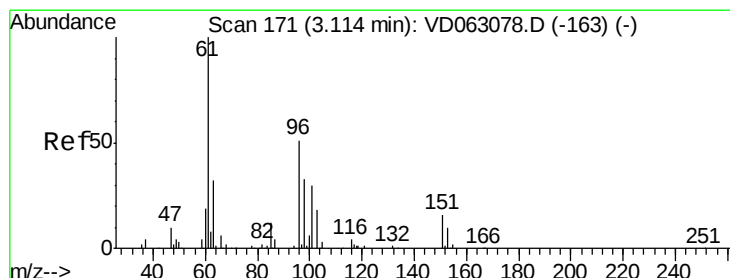
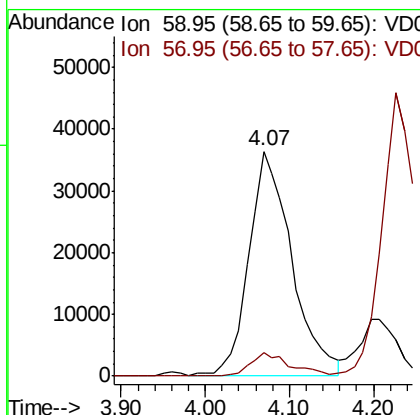
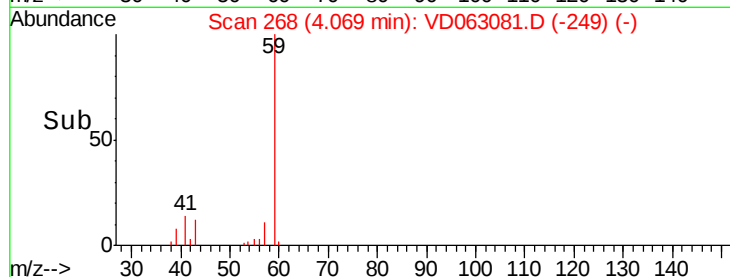
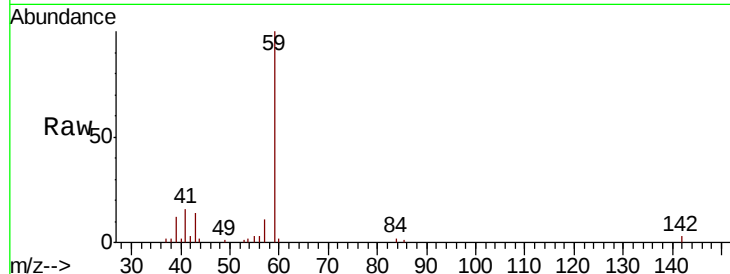




#11
Tert butyl alcohol
Concen: 238.196 ug/l
RT: 4.07 min Scan# 268
Delta R.T. -0.01 min
Lab File: VD063081.D
Acq: 15 Jul 2019 15:32

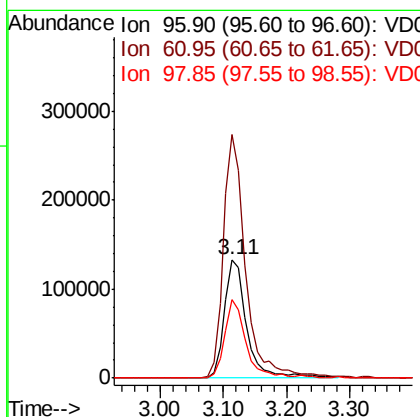
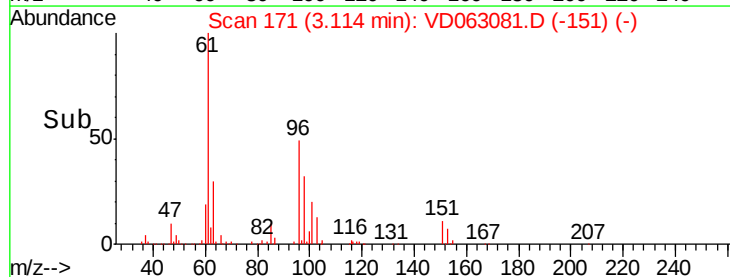
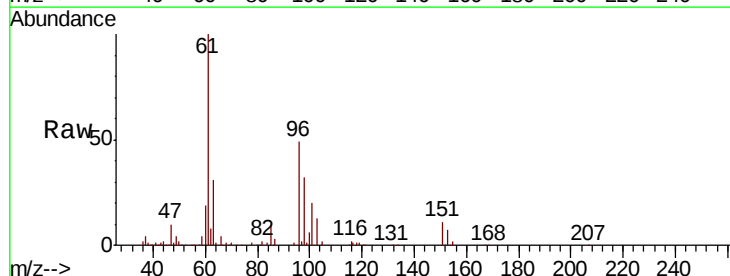
Instrument :
MSVOA_D
ClientSampleId :
ICVVD071519

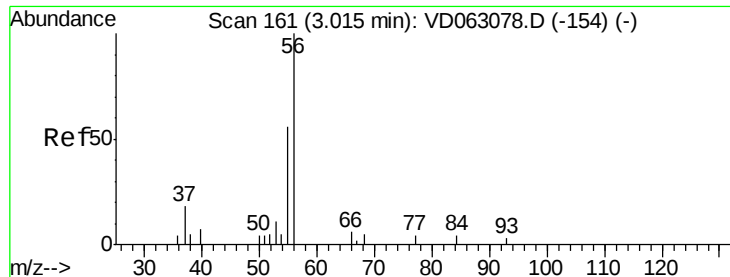
Tot Ion: 59 Resp: 130449
Ion Ratio Lower Upper
59 100
57 10.5 6.4 9.6#



#12
1,1-Dichloroethene
Concen: 49.243 ug/l
RT: 3.11 min Scan# 171
Delta R.T. 0.00 min
Lab File: VD063081.D
Acq: 15 Jul 2019 15:32

Tgt Ion: 96 Resp: 331861
Ion Ratio Lower Upper
96 100
61 205.1 155.5 233.3
98 65.7 51.5 77.3





#13

Acrolein

Concen: 145.380 ug/l

RT: 3.04 min Scan# 163

Delta R.T. 0.02 min

Lab File: VD063081.D

Acq: 15 Jul 2019 15:32

Instrument :

MSVOA_D

ClientSampleId :

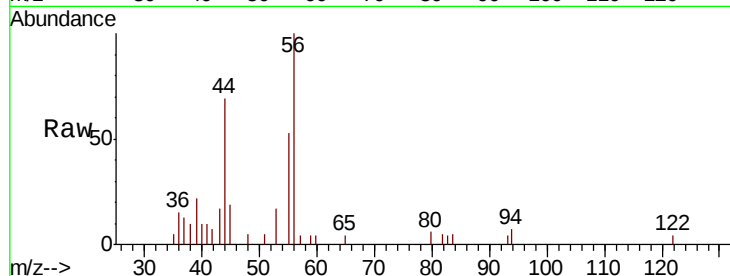
ICVVD071519

Tot Ion: 56 Resp: 24030

Ion Ratio Lower Upper

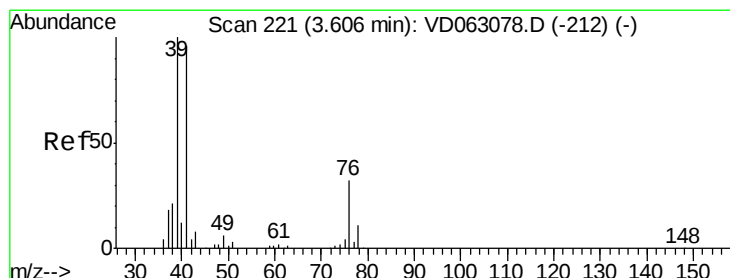
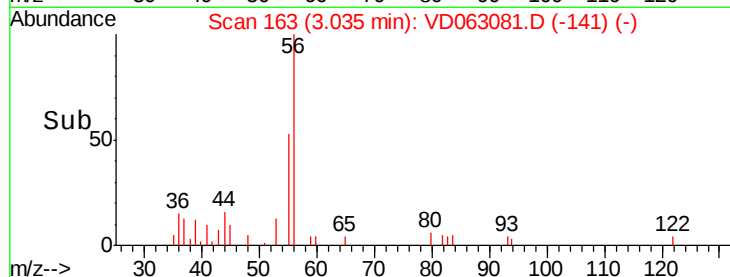
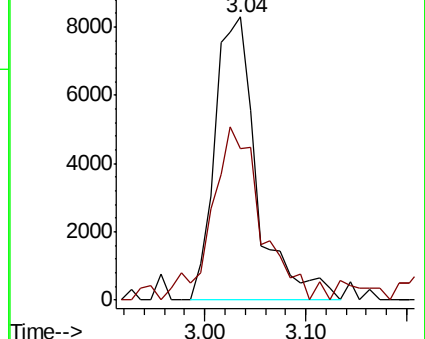
56 100

55 53.5 53.0 79.4



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 49.743 ug/l

RT: 3.61 min Scan# 221

Delta R.T. 0.00 min

Lab File: VD063081.D

Acq: 15 Jul 2019 15:32

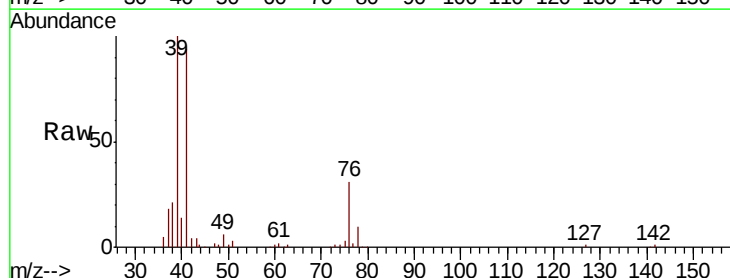
Tgt Ion: 41 Resp: 526869

Ion Ratio Lower Upper

41 100

39 106.0 83.5 125.3

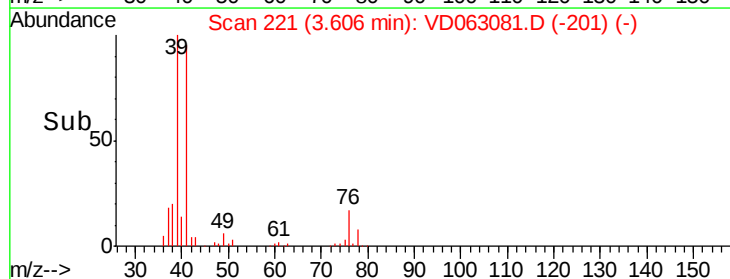
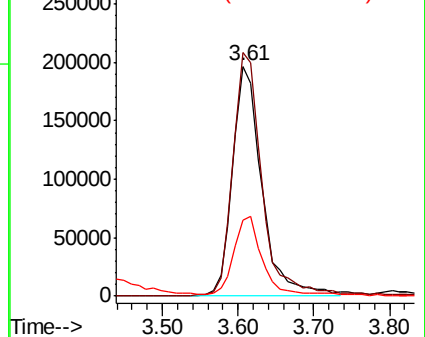
76 33.2 27.8 41.8

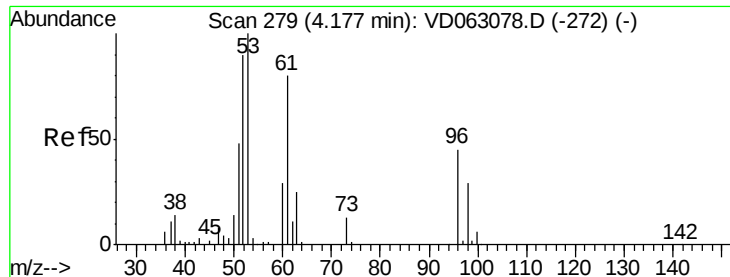


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 252.993 ug/l

RT: 4.19 min Scan# 280

Delta R.T. 0.01 min

Lab File: VD063081.D

Acq: 15 Jul 2019 15:32

Instrument :

MSVOA_D

ClientSampleId :

ICVVD071519

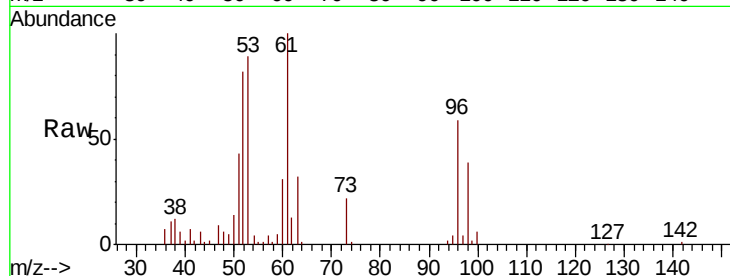
Tot Ion: 53 Resp: 306271

Ion Ratio Lower Upper

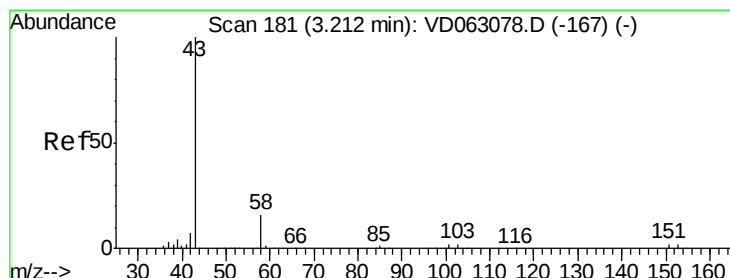
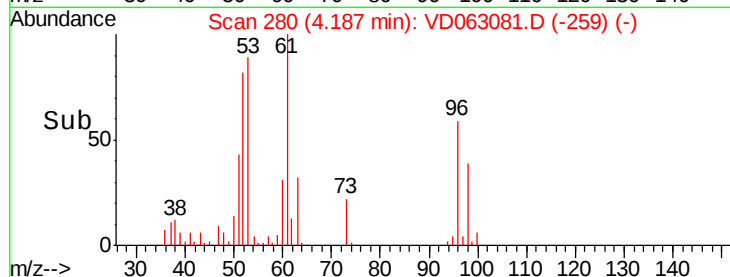
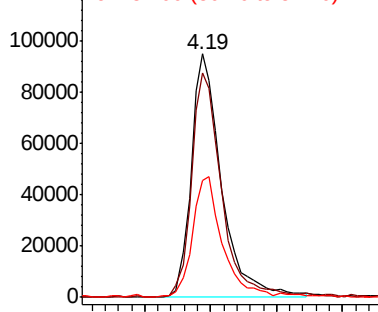
53 100

52 92.1 72.3 108.5

51 48.1 38.0 57.0



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: 254.864 ug/l

RT: 3.21 min Scan# 181

Delta R.T. 0.00 min

Lab File: VD063081.D

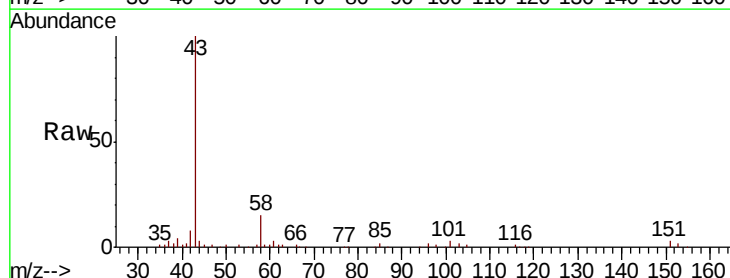
Acq: 15 Jul 2019 15:32

Tgt Ion: 43 Resp: 584150

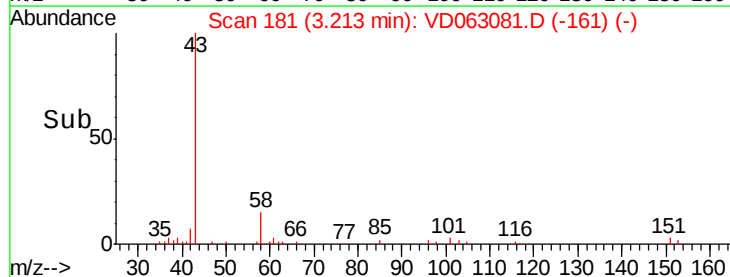
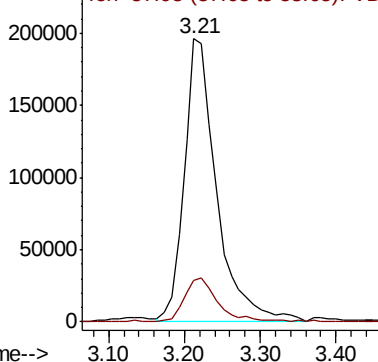
Ion Ratio Lower Upper

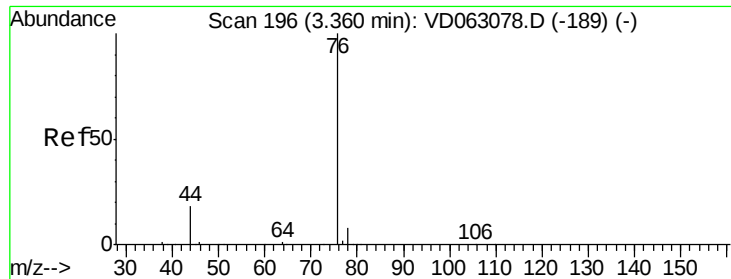
43 100

58 14.8 13.0 19.4



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

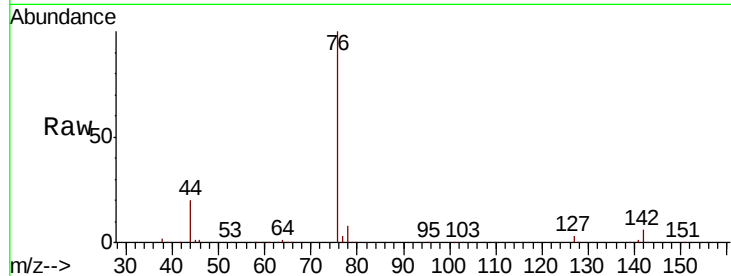




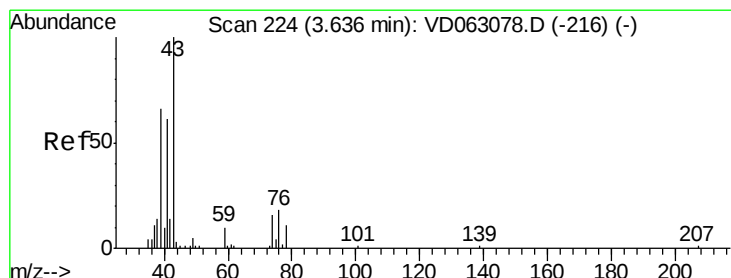
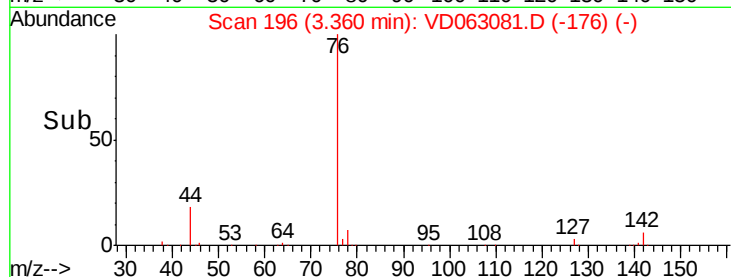
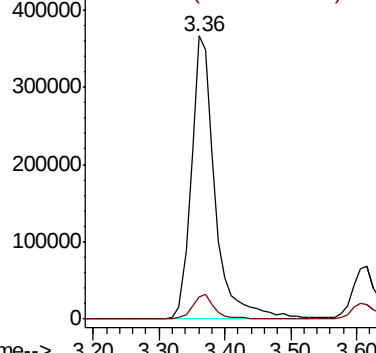
#17
Carbon Disulfide
Concen: 47.506 ug/l
RT: 3.36 min Scan# 196
Delta R.T. 0.00 min
Lab File: VD063081.D
Acq: 15 Jul 2019 15:32

Instrument :
MSVOA_D
ClientSampleId :
ICVVD071519

Tot Ion: 76 Resp: 916395
Ion Ratio Lower Upper
76 100
78 7.8 6.7 10.1

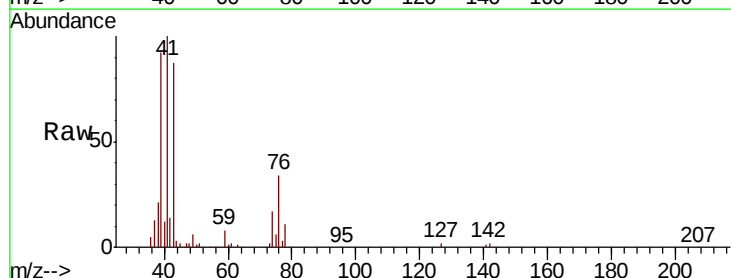


Abundance Ion 75.85 (75.55 to 76.55): VDC
Ion 77.85 (77.55 to 78.55): VDC

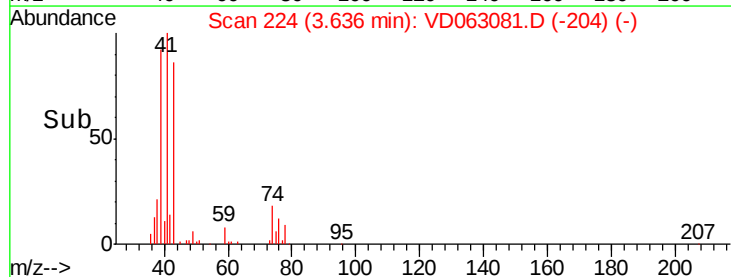
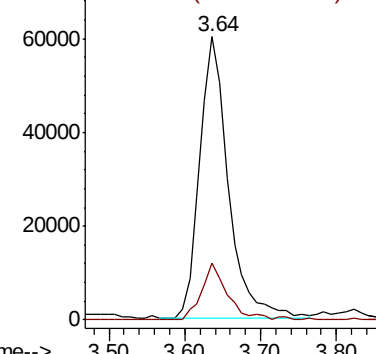


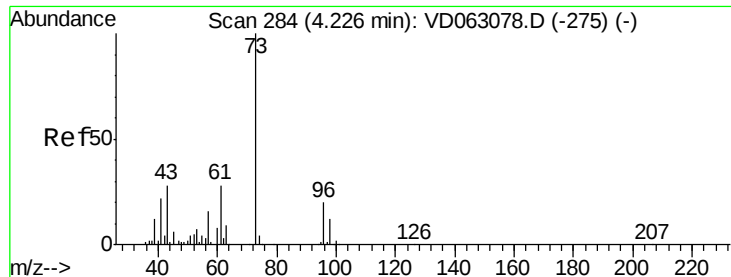
#18
Methyl Acetate
Concen: 51.216 ug/l
RT: 3.64 min Scan# 224
Delta R.T. 0.00 min
Lab File: VD063081.D
Acq: 15 Jul 2019 15:32

Tgt Ion: 43 Resp: 157120
Ion Ratio Lower Upper
43 100
74 20.0 12.5 18.7#



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

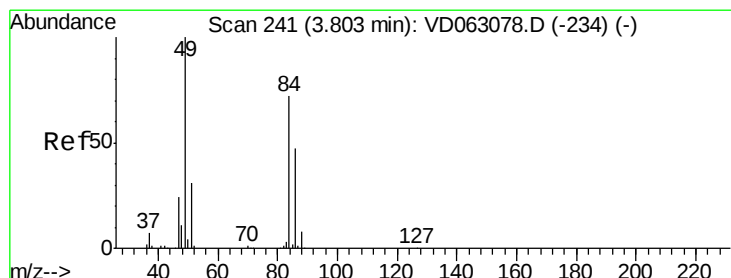
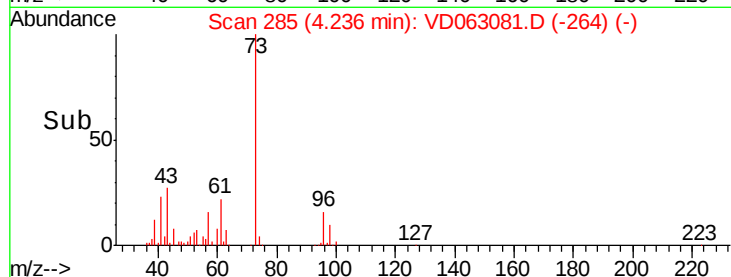
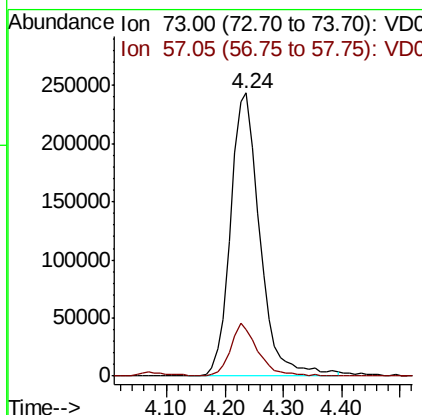
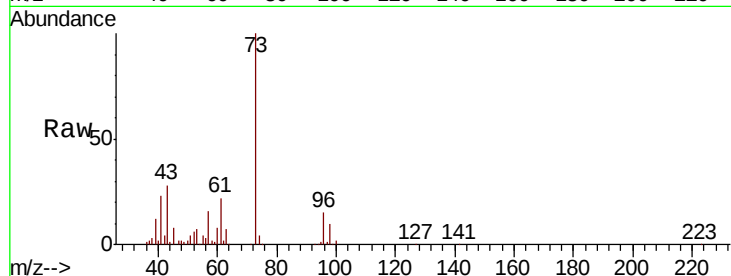




#19
Methyl tert-butyl Ether
Concen: 50.357 ug/l
RT: 4.24 min Scan# 285
Delta R.T. 0.01 min
Lab File: VD063081.D
Acq: 15 Jul 2019 15:32

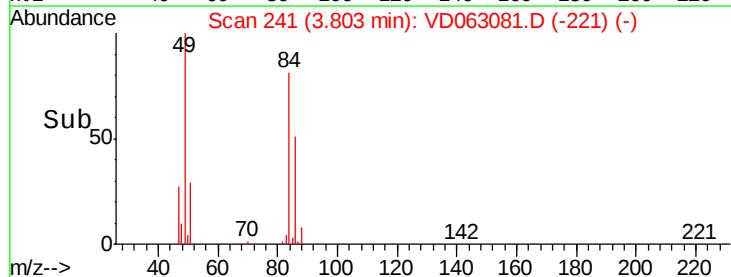
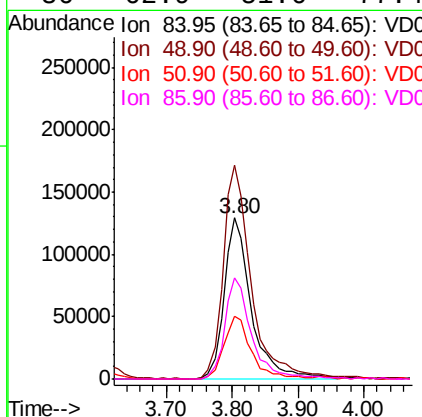
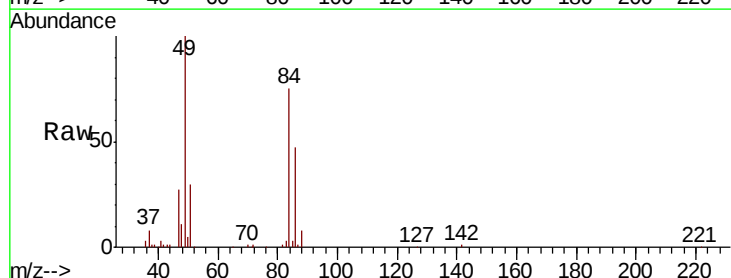
Instrument :
MSVOA_D
ClientSampleId :
ICVVD071519

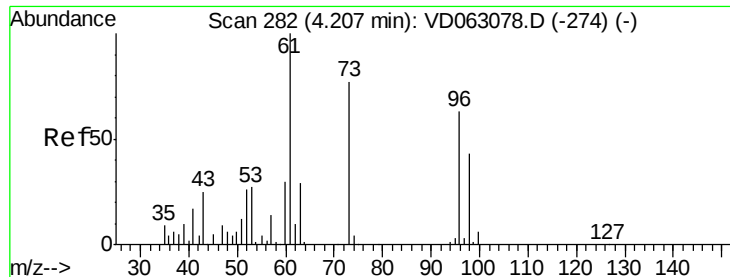
Tot Ion: 73 Resp: 856676
Ion Ratio Lower Upper
73 100
57 16.3 13.1 19.7



#20
Methylene Chloride
Concen: 42.982 ug/l
RT: 3.80 min Scan# 241
Delta R.T. 0.00 min
Lab File: VD063081.D
Acq: 15 Jul 2019 15:32

Tgt Ion: 84 Resp: 372179
Ion Ratio Lower Upper
84 100
49 132.6 110.5 165.7
51 39.2 34.6 51.8
86 62.9 51.6 77.4





#21

trans-1,2-Dichloroethene

Concen: 50.301 ug/l

RT: 4.21 min Scan# 282

Delta R.T. 0.00 min

Lab File: VD063081.D

Acq: 15 Jul 2019 15:32

Instrument :

MSVOA_D

ClientSampleId :

ICVVD071519

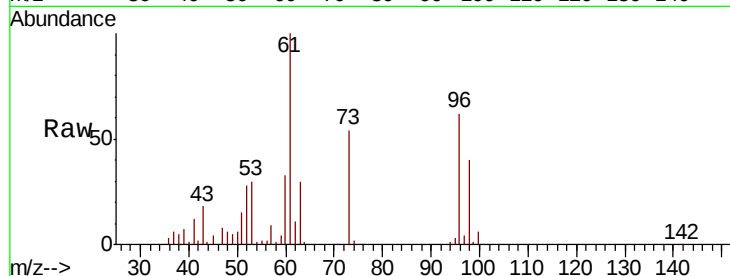
Tot Ion: 96 Resp: 376316

Ion Ratio Lower Upper

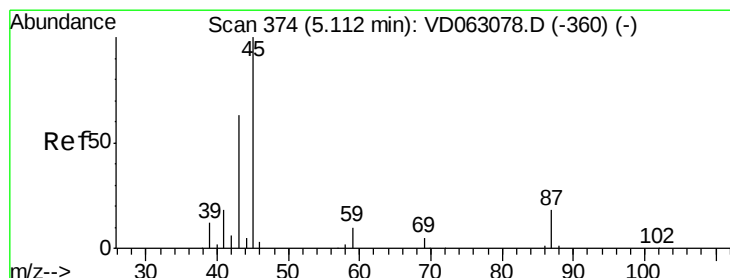
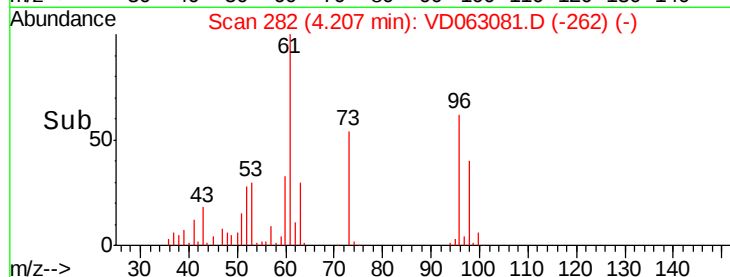
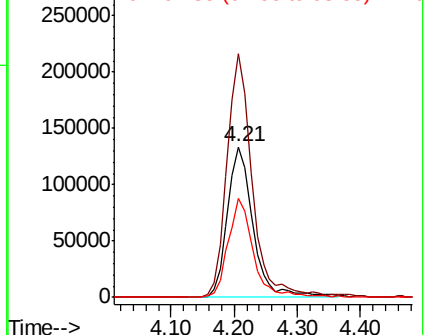
96 100

61 161.7 128.0 192.0

98 65.3 55.2 82.8



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: 52.929 ug/l

RT: 5.11 min Scan# 374

Delta R.T. 0.00 min

Lab File: VD063081.D

Acq: 15 Jul 2019 15:32

Tgt Ion: 45 Resp: 1218870

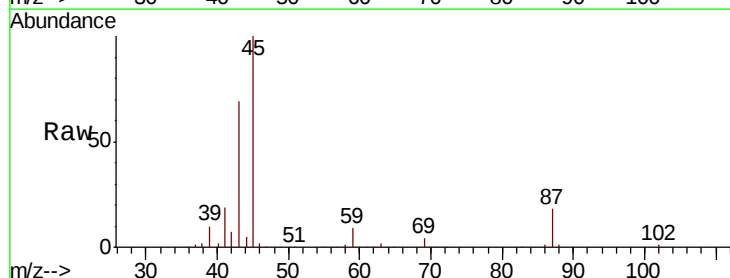
Ion Ratio Lower Upper

45 100

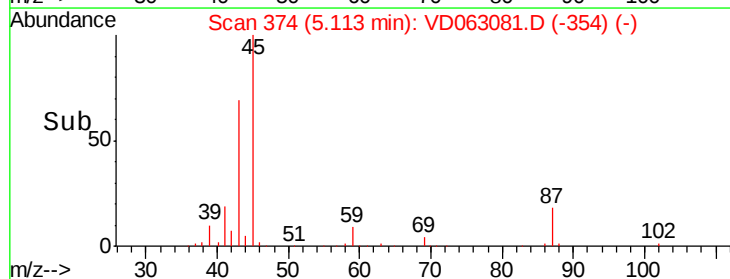
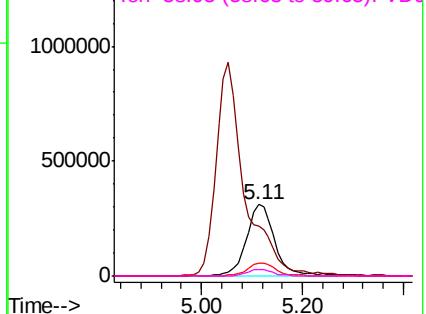
43 69.5 50.5 75.7

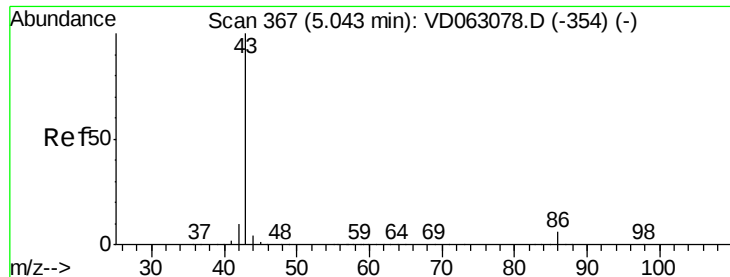
87 18.3 15.1 22.7

59 9.1 7.6 11.4



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: 273.733 ug/l

RT: 5.05 min Scan# 368

Delta R.T. 0.01 min

Lab File: VD063081.D

Acq: 15 Jul 2019 15:32

Instrument :

MSVOA_D

ClientSampleId :

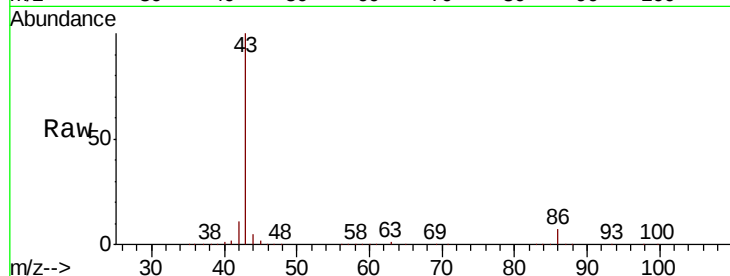
ICVVD071519

Tot Ion: 43 Resp: 3677648

Ion Ratio Lower Upper

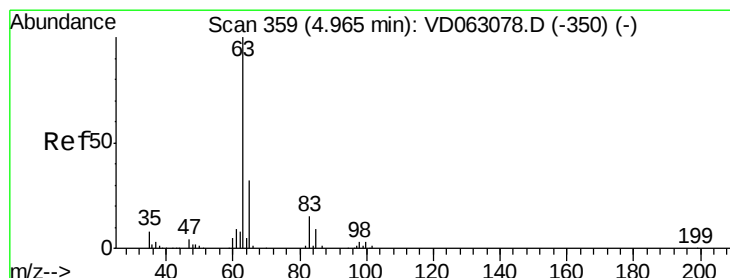
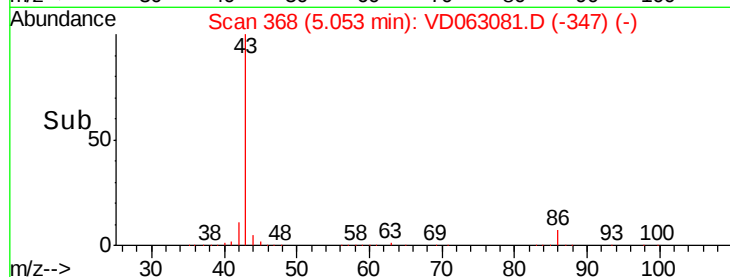
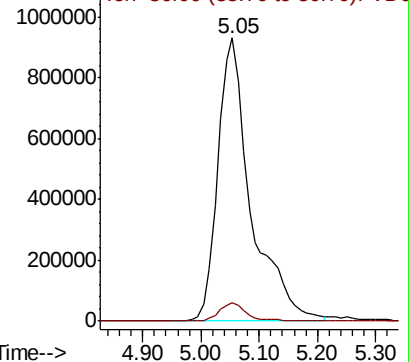
43 100

86 6.7 5.0 7.6



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 53.005 ug/l

RT: 4.97 min Scan# 360

Delta R.T. 0.01 min

Lab File: VD063081.D

Acq: 15 Jul 2019 15:32

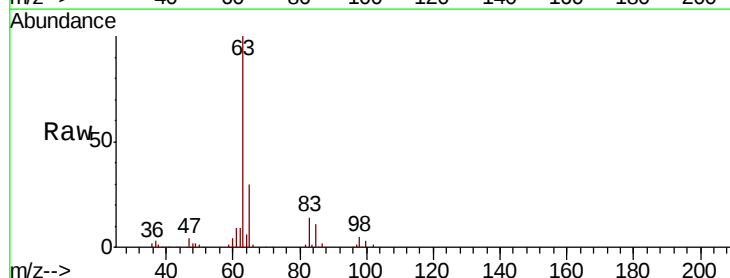
Tgt Ion: 63 Resp: 751895

Ion Ratio Lower Upper

63 100

98 4.6 1.7 5.1

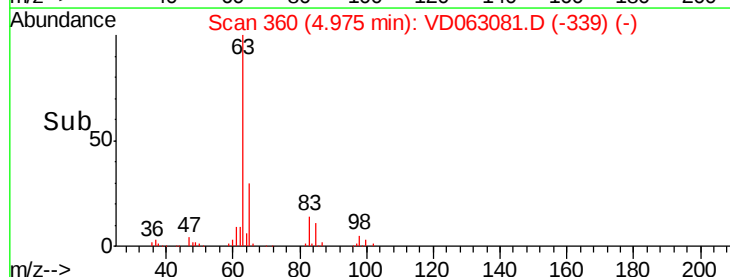
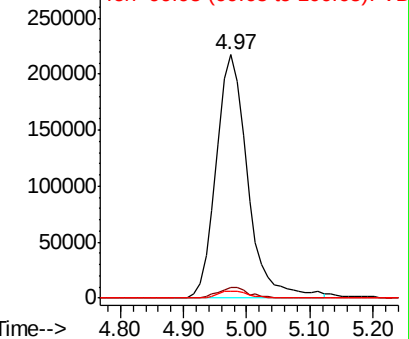
100 2.7 1.5 4.5

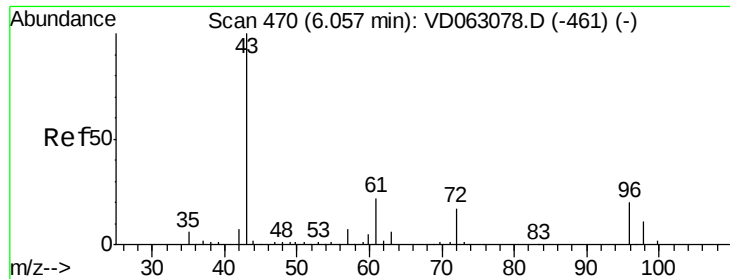


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 246.979 ug/l

RT: 6.07 min Scan# 471

Delta R.T. 0.01 min

Lab File: VD063081.D

Acq: 15 Jul 2019 15:32

Instrument :

MSVOA_D

ClientSampleId :

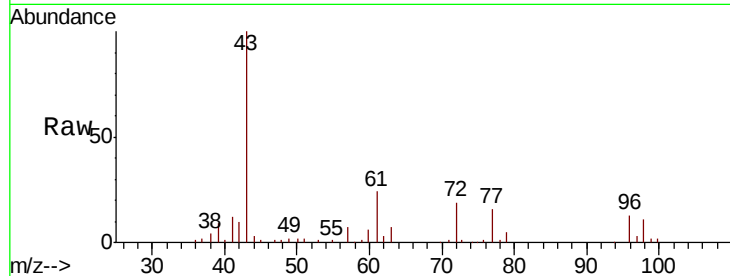
ICVVD071519

Tot Ion: 43 Resp: 540558

Ion Ratio Lower Upper

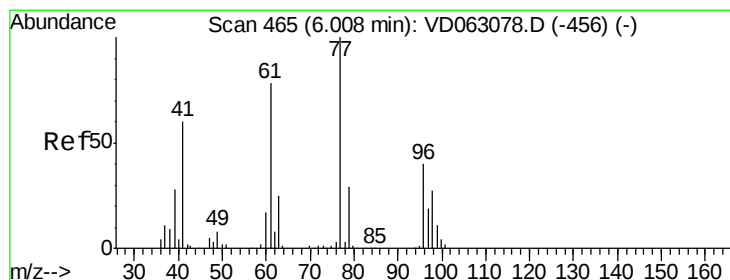
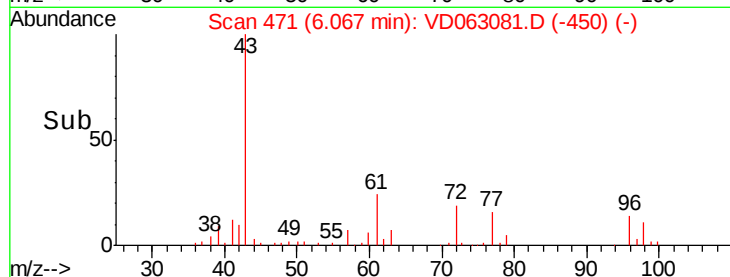
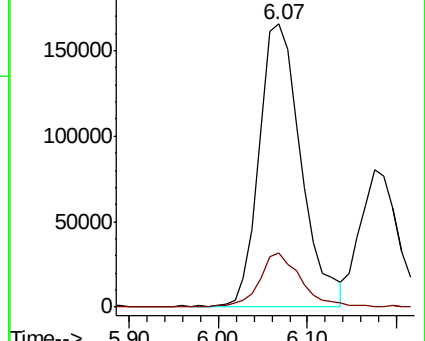
43 100

72 19.1 13.4 20.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 51.497 ug/l

RT: 6.01 min Scan# 465

Delta R.T. 0.00 min

Lab File: VD063081.D

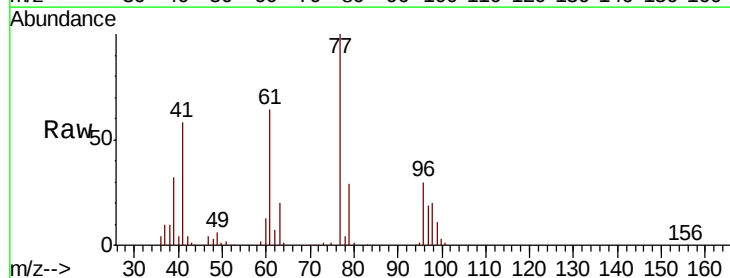
Acq: 15 Jul 2019 15:32

Tgt Ion: 77 Resp: 808460

Ion Ratio Lower Upper

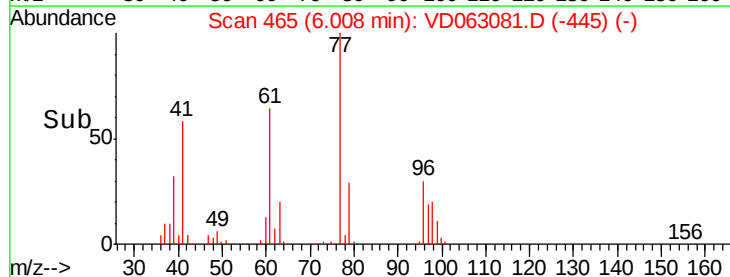
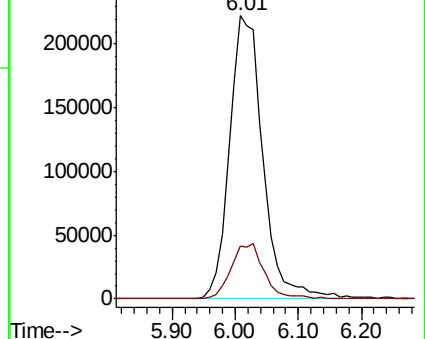
77 100

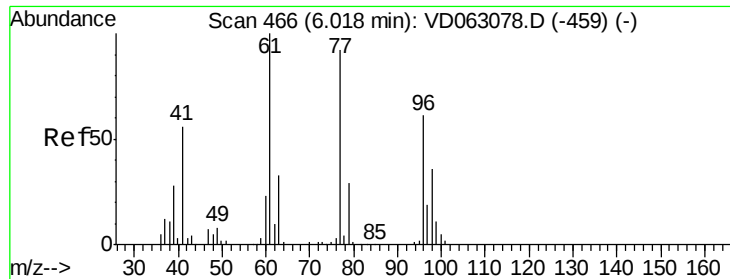
97 18.9 9.3 27.9



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



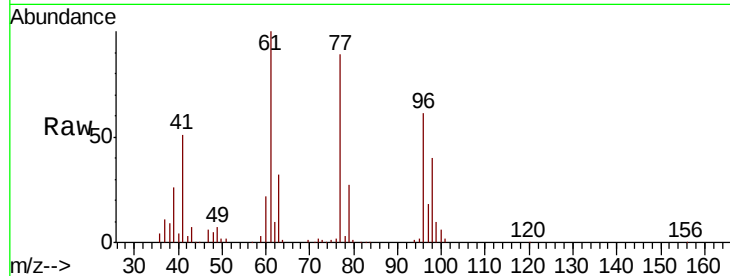


#27

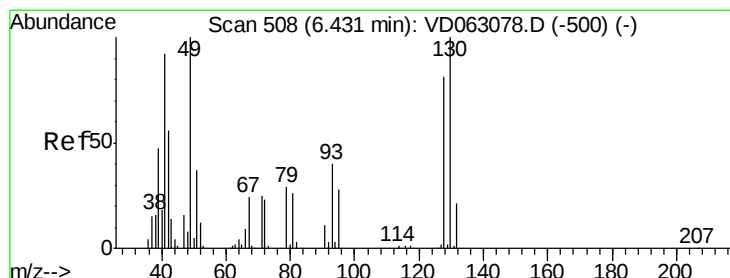
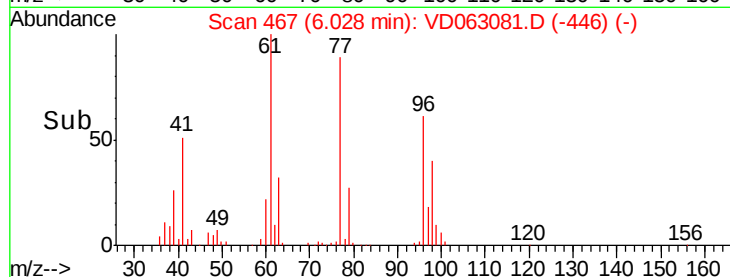
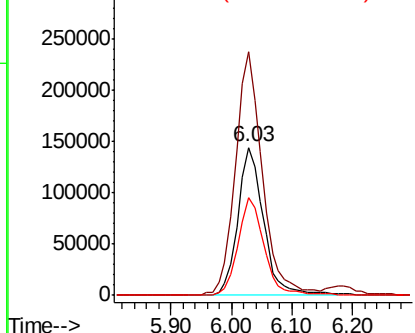
cis-1,2-Dichloroethene
 Concen: 50.386 ug/l
 RT: 6.03 min Scan# 467
 Delta R.T. 0.01 min
 Lab File: VD063081.D
 Acq: 15 Jul 2019 15:32

Instrument :
 MSVOA_D
 ClientSampleId :
 ICVVD071519

Tot Ion	Ratio	Lower	Upper
96	100		
61	164.9	0.0	329.6
98	66.1	0.0	118.4



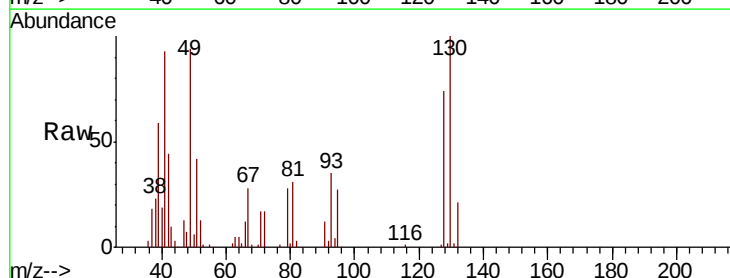
Abundance Ion 95.90 (95.60 to 96.60): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 97.85 (97.55 to 98.55): VDC



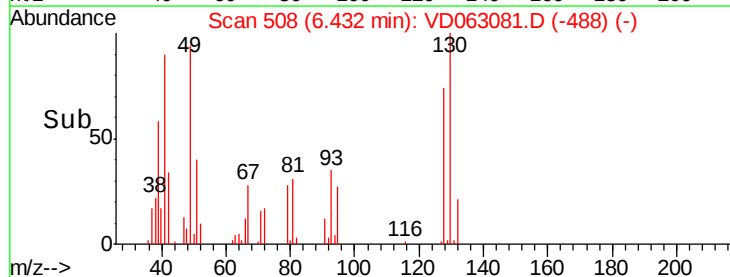
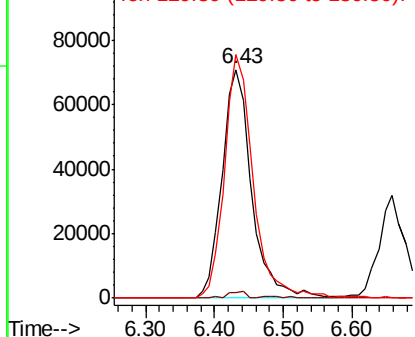
#28

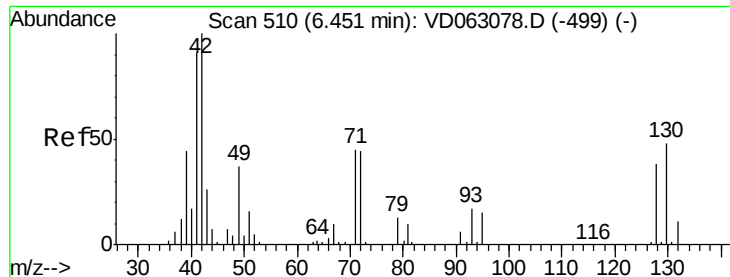
Bromochloromethane
 Concen: 41.156 ug/l
 RT: 6.43 min Scan# 508
 Delta R.T. 0.00 min
 Lab File: VD063081.D
 Acq: 15 Jul 2019 15:32

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.3	0.0	3.6
130	106.5	80.3	120.5



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: 237.205 ug/l

RT: 6.45 min Scan# 510

Delta R.T. 0.00 min

Lab File: VD063081.D

Acq: 15 Jul 2019 15:32

Instrument :

MSVOA_D

ClientSampleId :

ICVVD071519

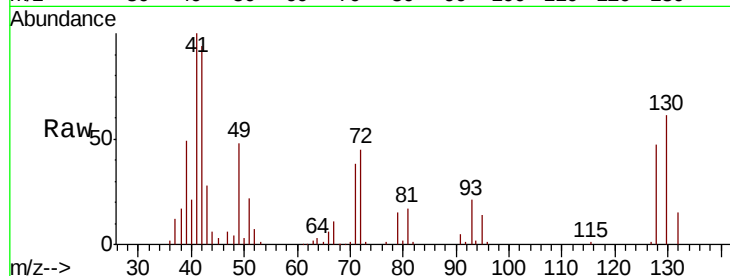
Tot Ion: 42 Resp: 235341

Ion Ratio Lower Upper

42 100

72 44.6 33.7 50.5

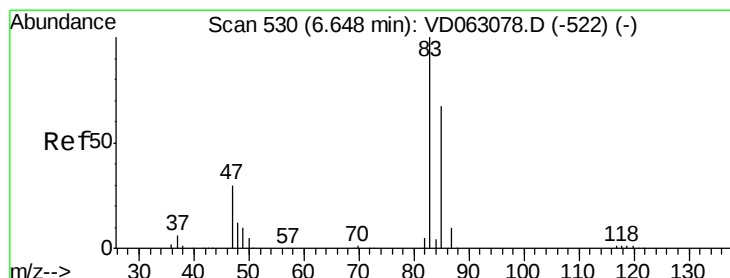
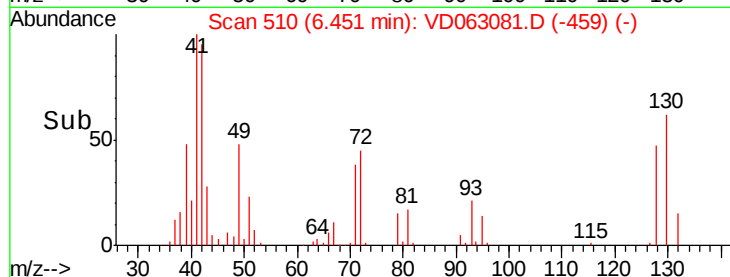
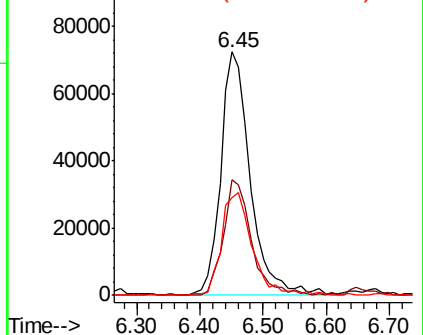
71 43.9 34.2 51.2



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: 51.833 ug/l

RT: 6.66 min Scan# 531

Delta R.T. 0.01 min

Lab File: VD063081.D

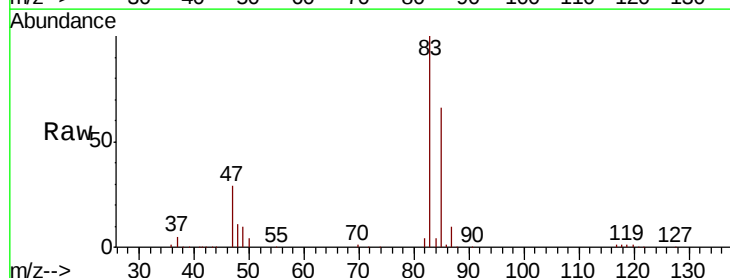
Acq: 15 Jul 2019 15:32

Tgt Ion: 83 Resp: 905520

Ion Ratio Lower Upper

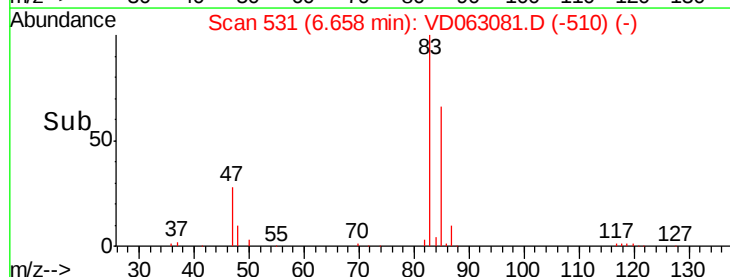
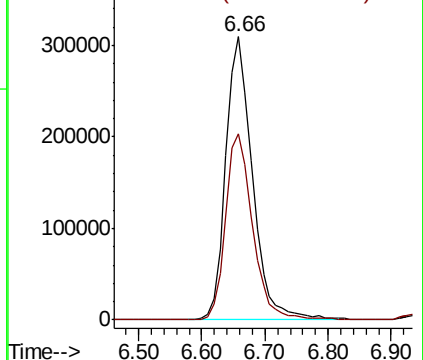
83 100

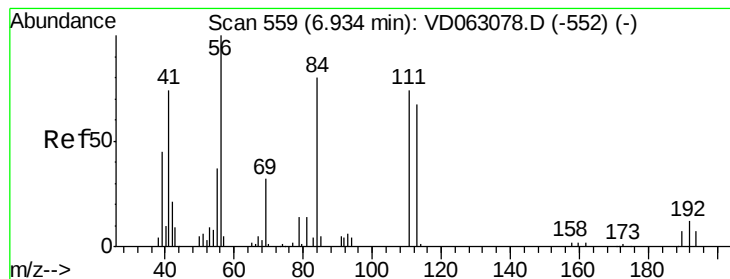
85 65.7 53.8 80.8



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC





#31

Cyclohexane

Concen: 51.764 ug/l

RT: 6.94 min Scan# 560

Delta R.T. 0.01 min

Lab File: VD063081.D

Acq: 15 Jul 2019 15:32

Instrument :

MSVOA_D

ClientSampleId :

ICVVD071519

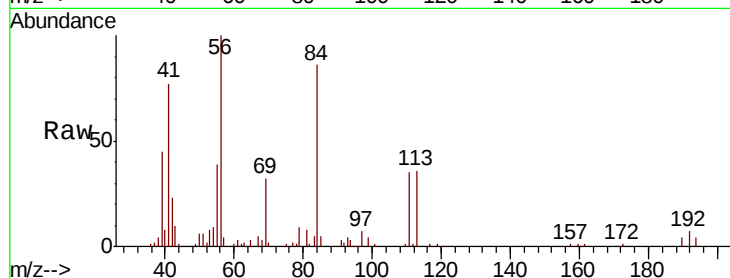
Tot Ion: 56 Resp: 467627

Ion Ratio Lower Upper

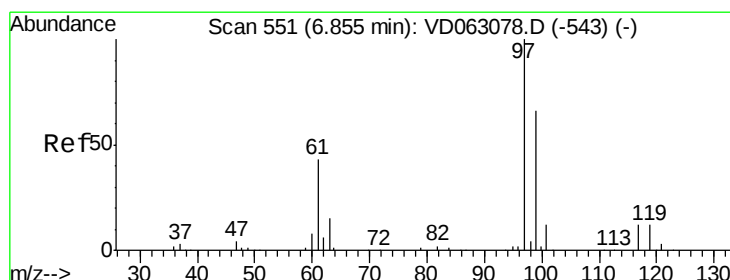
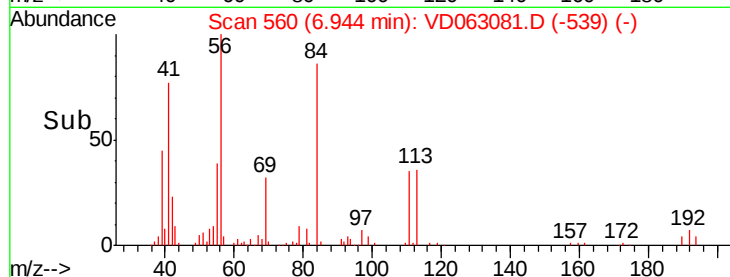
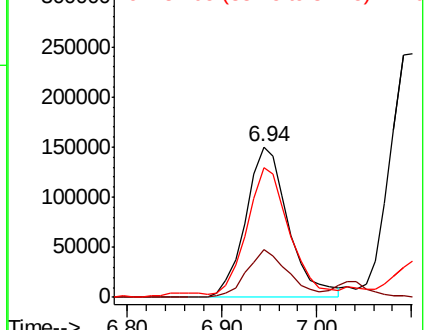
56 100

69 31.6 25.3 37.9

84 85.8 64.2 96.4



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC



#32

1,1,1-Trichloroethane

Concen: 50.247 ug/l

RT: 6.85 min Scan# 551

Delta R.T. 0.00 min

Lab File: VD063081.D

Acq: 15 Jul 2019 15:32

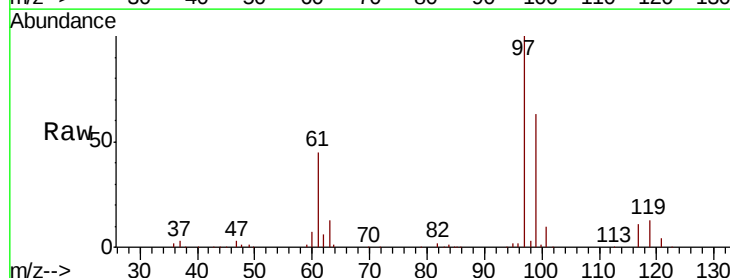
Tgt Ion: 97 Resp: 865607

Ion Ratio Lower Upper

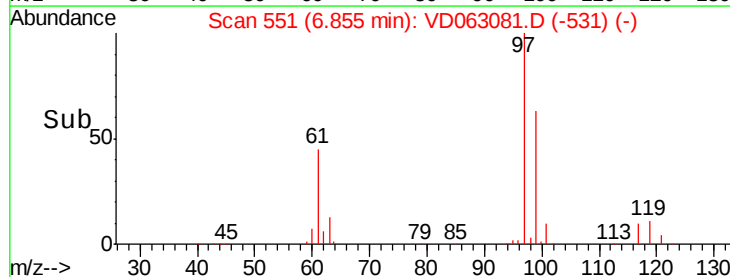
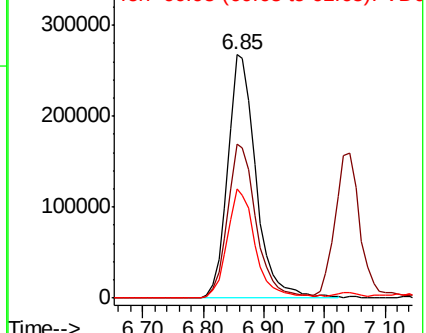
97 100

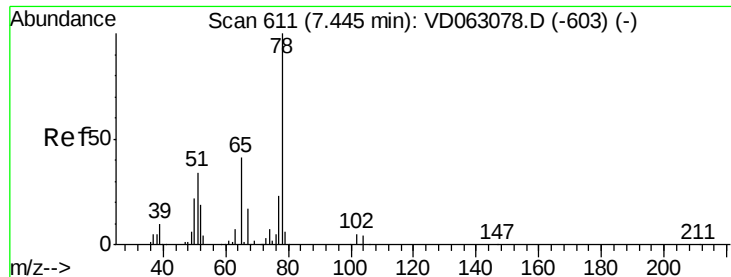
99 63.3 52.9 79.3

61 45.0 34.4 51.6



Abundance Ion 96.85 (96.55 to 97.55): VDC
Ion 98.85 (98.55 to 99.55): VDC
Ion 60.95 (60.65 to 61.65): VDC





#33

1,2-Dichloroethane-d4

Concen: 42.395 ug/l

RT: 7.45 min Scan# 611

Delta R.T. 0.00 min

Lab File: VD063081.D

Acq: 15 Jul 2019 15:32

Instrument :

MSVOA_D

ClientSampleId :

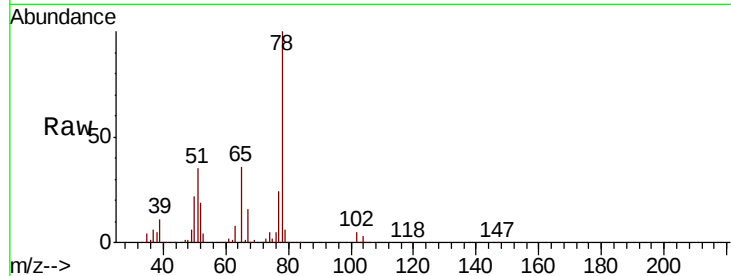
ICVVD071519

Tot Ion: 65 Resp: 402313

Ion Ratio Lower Upper

65 100

67 45.0 0.0 86.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.45

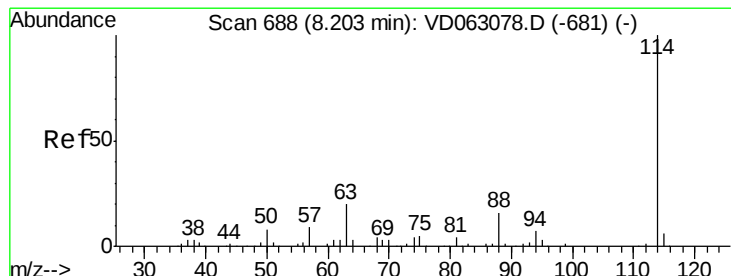
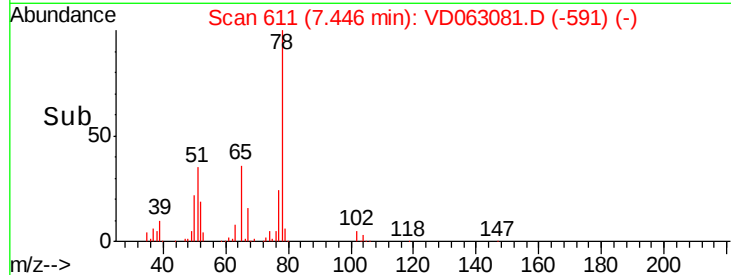
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.21 min Scan# 689

Delta R.T. 0.01 min

Lab File: VD063081.D

Acq: 15 Jul 2019 15:32

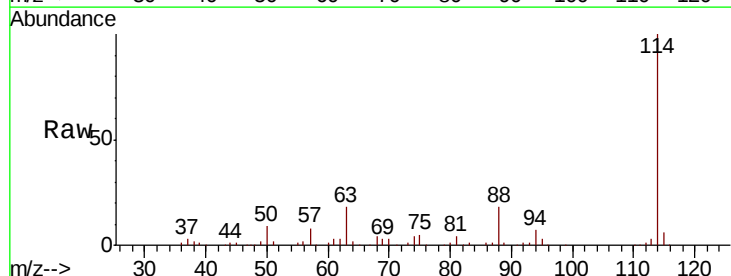
Tgt Ion: 114 Resp: 1012278

Ion Ratio Lower Upper

114 100

63 18.5 0.0 40.6

88 17.6 0.0 32.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.21

500000

400000

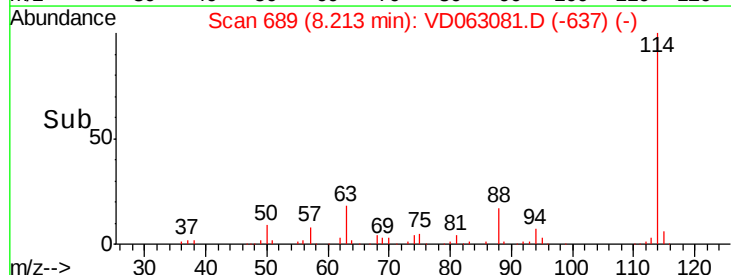
300000

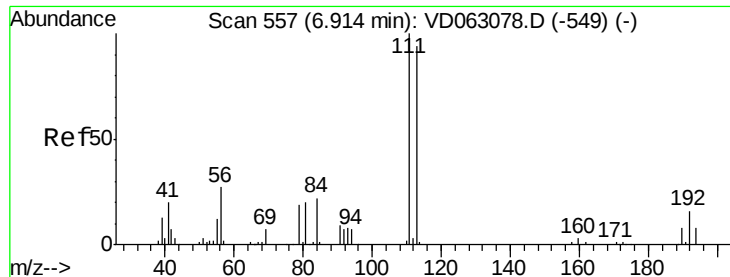
200000

100000

0

Time-->





#35

Dibromofluoromethane

Concen: 42.752 ug/l

RT: 6.91 min Scan# 557

Delta R.T. 0.00 min

Lab File: VD063081.D

Acq: 15 Jul 2019 15:32

Instrument :

MSVOA_D

ClientSampleId :

ICVVD071519

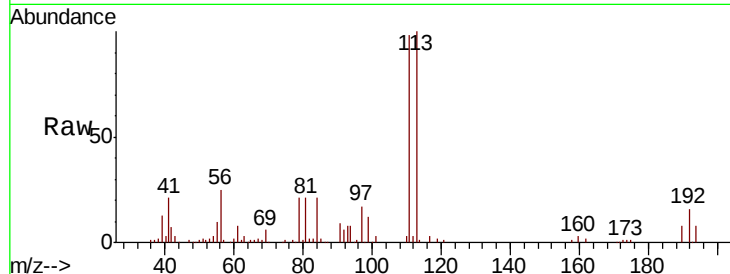
Tot Ion:113 Resp: 431045

Ion Ratio Lower Upper

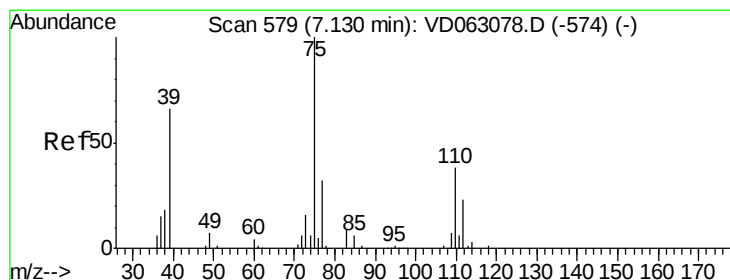
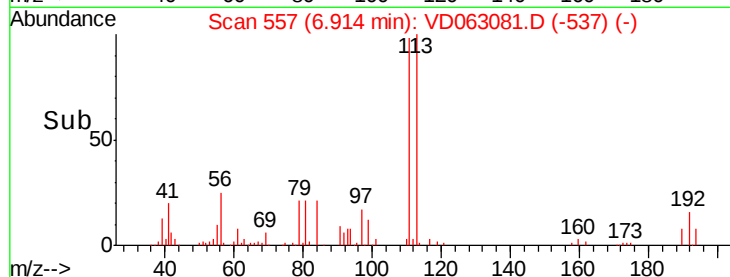
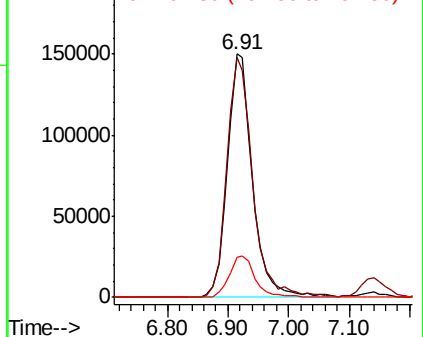
113 100

111 98.4 84.8 127.2

192 16.3 13.4 20.0



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: 50.924 ug/l

RT: 7.14 min Scan# 580

Delta R.T. 0.01 min

Lab File: VD063081.D

Acq: 15 Jul 2019 15:32

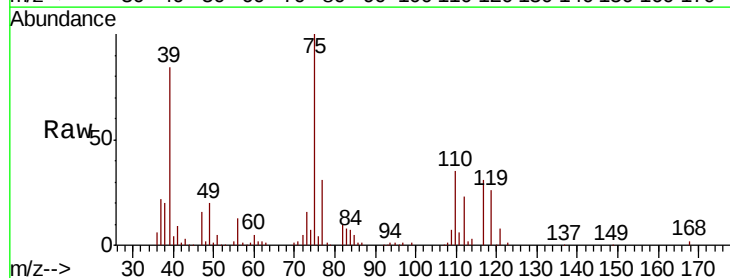
Tgt Ion: 75 Resp: 579769

Ion Ratio Lower Upper

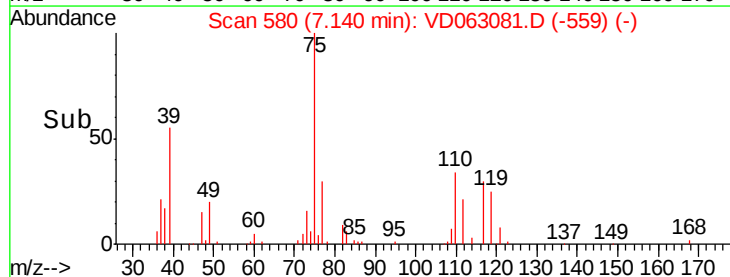
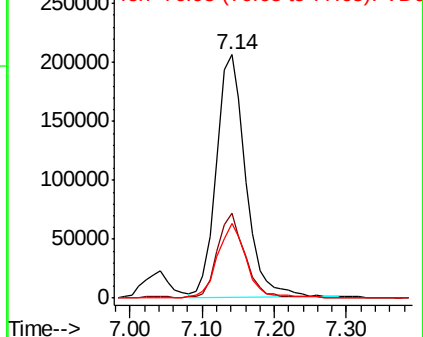
75 100

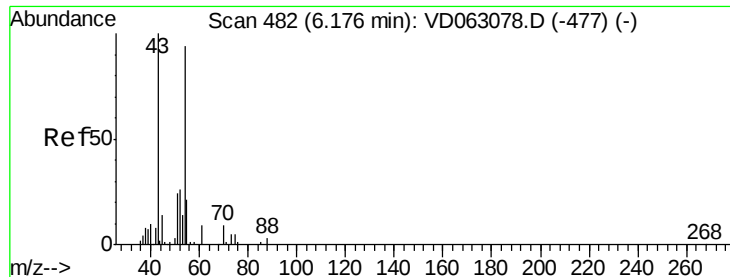
110 34.9 18.9 56.5

77 30.6 25.2 37.8



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

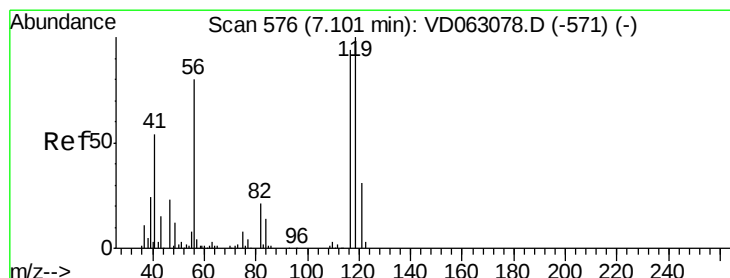
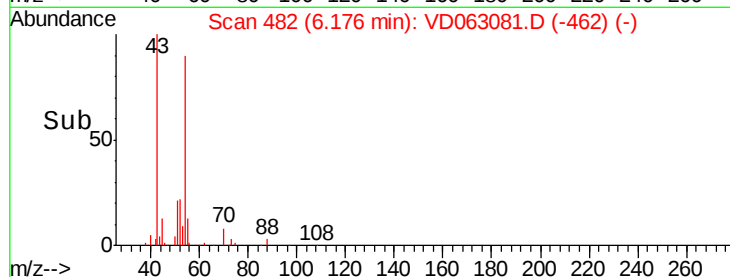
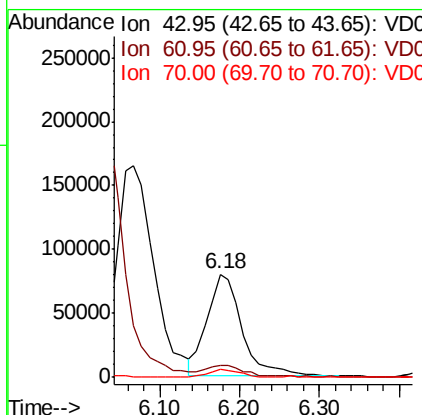
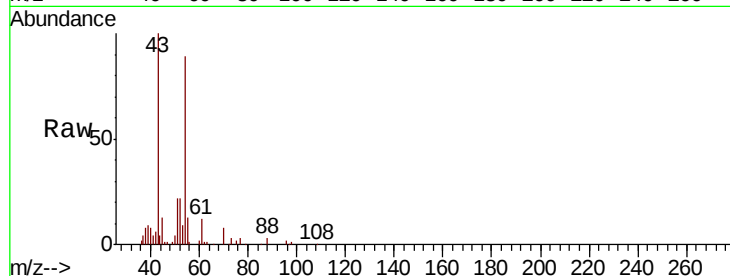




#37
Ethyl Acetate
Concen: 50.472 ug/l
RT: 6.18 min Scan# 482
Delta R.T. 0.00 min
Lab File: VD063081.D
Acq: 15 Jul 2019 15:32

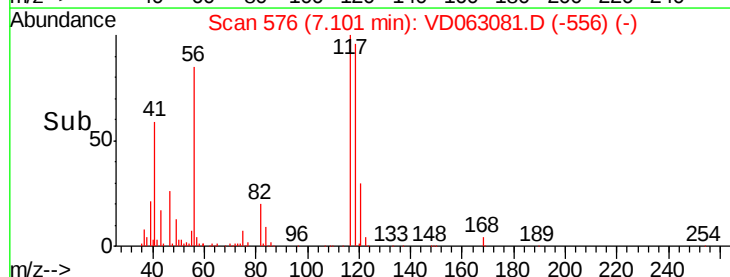
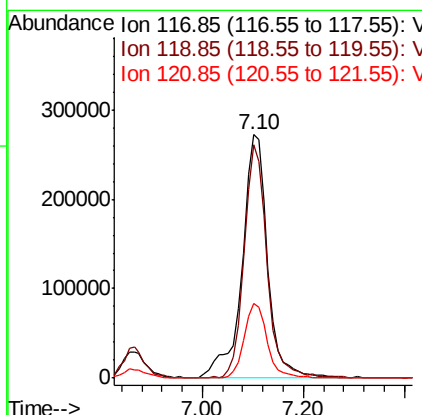
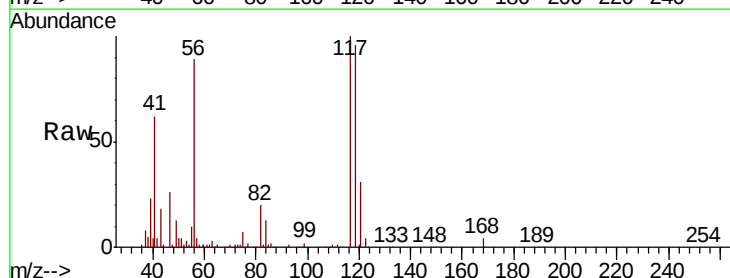
Instrument :
MSVOA_D
ClientSampleId :
ICVVD071519

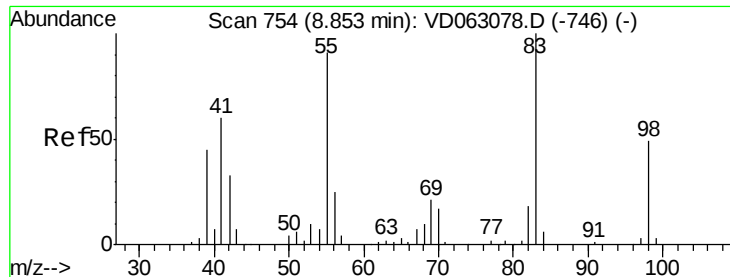
Tot Ion: 43 Resp: 245923
Ion Ratio Lower Upper
43 100
61 11.5 10.6 16.0
70 7.8 6.6 9.8



#38
Carbon Tetrachloride
Concen: 54.696 ug/l
RT: 7.10 min Scan# 576
Delta R.T. 0.00 min
Lab File: VD063081.D
Acq: 15 Jul 2019 15:32

Tgt Ion: 117 Resp: 946215
Ion Ratio Lower Upper
117 100
119 95.8 80.0 120.0
121 30.5 25.0 37.4

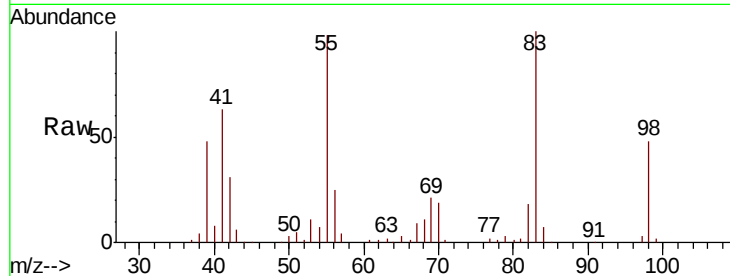




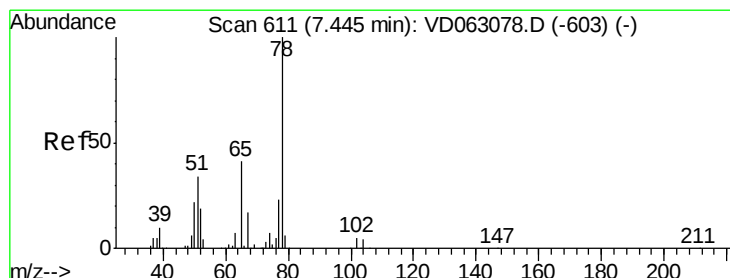
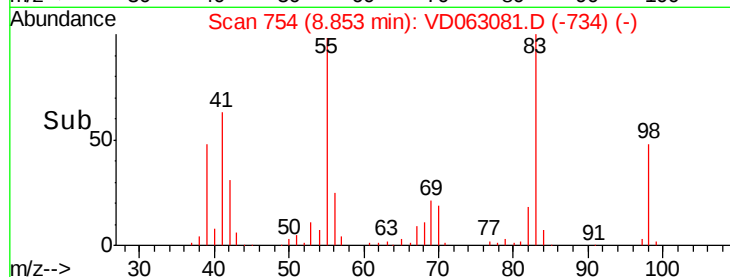
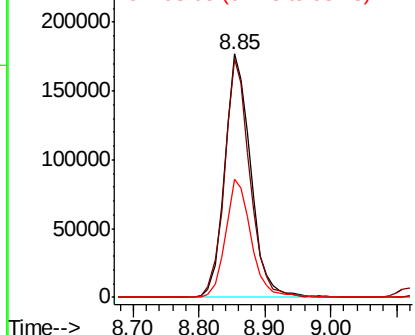
#39
Methvlcvclohexane
Concen: 49.492 ug/l
RT: 8.85 min Scan# 754
Delta R.T. 0.00 min
Lab File: VD063081.D
Acq: 15 Jul 2019 15:32

Instrument :
MSVOA_D
ClientSampleId :
ICVVD071519

Tot Ion: 83 Resp: 487136
Ion Ratio Lower Upper
83 100
55 97.8 73.0 109.4
98 48.4 39.4 59.0

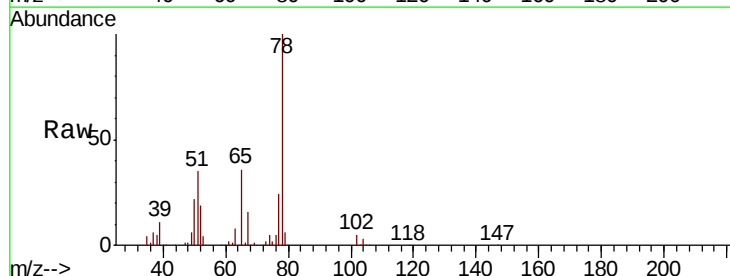


Abundance Ion 83.05 (82.75 to 83.75): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.05 (97.75 to 98.75): VDC

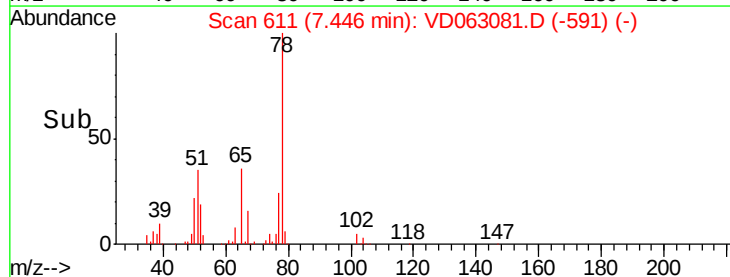
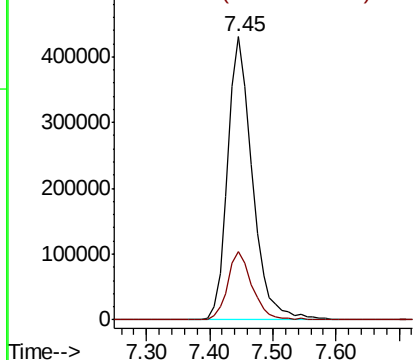


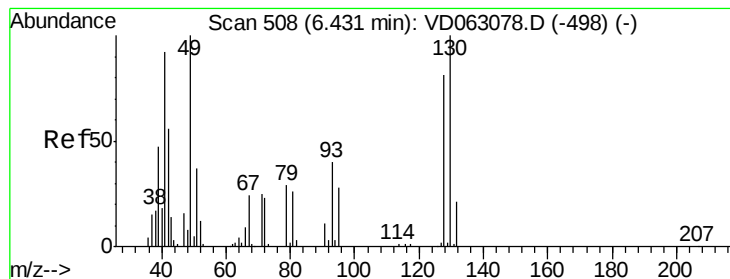
#40
Benzene
Concen: 48.816 ug/l
RT: 7.45 min Scan# 611
Delta R.T. 0.00 min
Lab File: VD063081.D
Acq: 15 Jul 2019 15:32

Tgt Ion: 78 Resp: 1164011
Ion Ratio Lower Upper
78 100
77 24.2 18.1 27.1



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





#41

Methacrylonitrile

Concen: 47.423 ug/l

RT: 6.44 min Scan# 509

Delta R.T. 0.01 min

Lab File: VD063081.D

Acq: 15 Jul 2019 15:32

Instrument :

MSVOA_D

ClientSampleId :

ICVVD071519

Tot Ion: 41 Resp: 313268

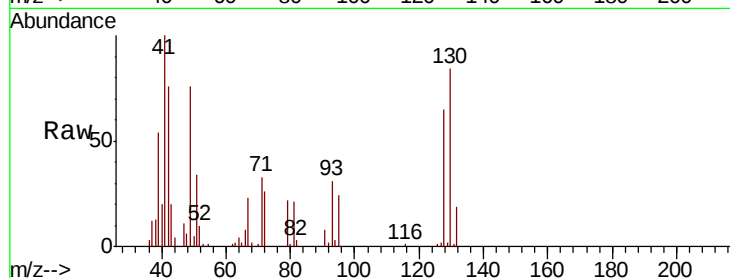
Ion Ratio Lower Upper

41 100

39 54.4 41.0 61.6

67 23.1 21.3 31.9

52 9.6 10.5 15.7#

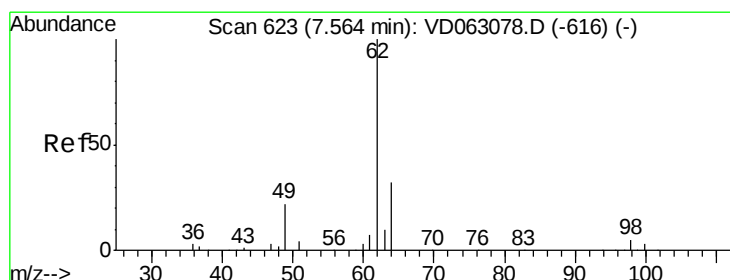
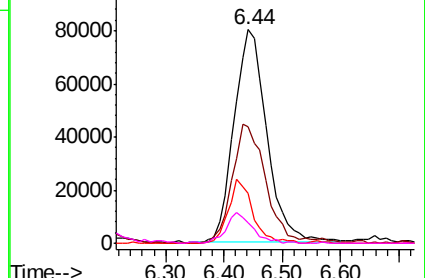
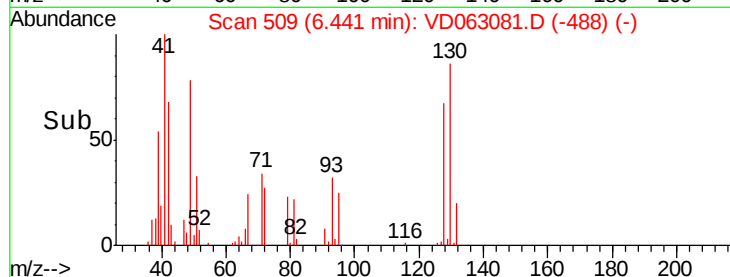


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



#42

1,2-Dichloroethane

Concen: 51.645 ug/l

RT: 7.57 min Scan# 624

Delta R.T. 0.01 min

Lab File: VD063081.D

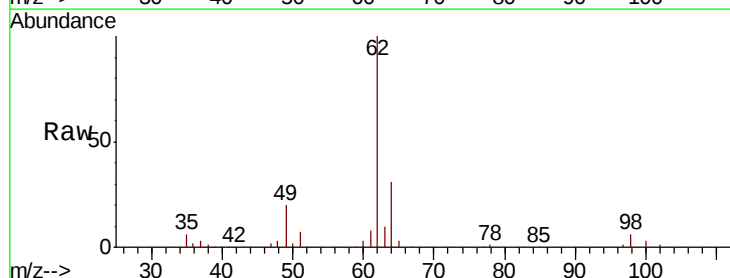
Acq: 15 Jul 2019 15:32

Tgt Ion: 62 Resp: 656076

Ion Ratio Lower Upper

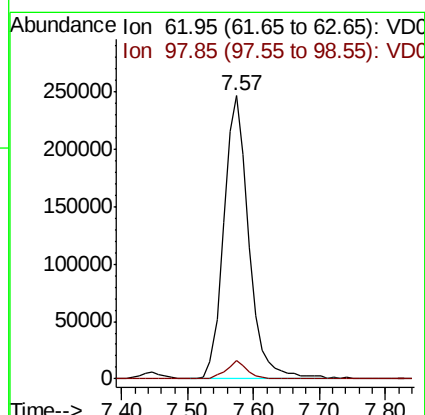
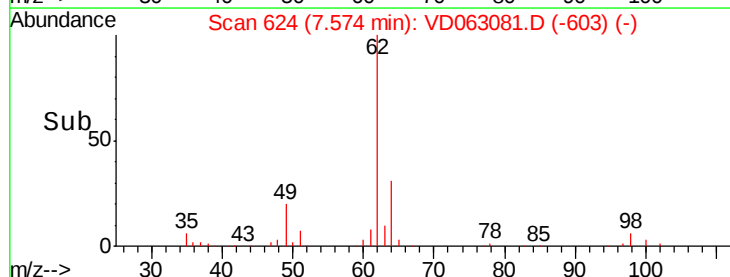
62 100

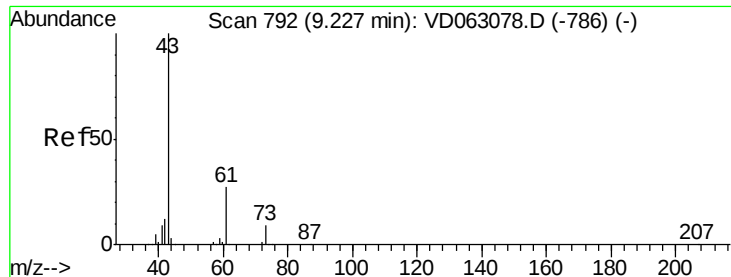
98 6.4 0.0 9.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 97.85 (97.55 to 98.55): VDC





#43

Isopropyl Acetate

Concen: 49.710 ug/l

RT: 9.24 min Scan# 793

Delta R.T. 0.01 min

Lab File: VD063081.D

Acq: 15 Jul 2019 15:32

Instrument :

MSVOA_D

ClientSampleId :

ICVVD071519

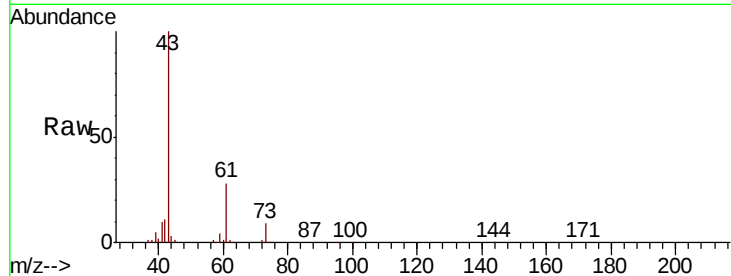
Tot Ion: 43 Resp: 347171

Ion Ratio Lower Upper

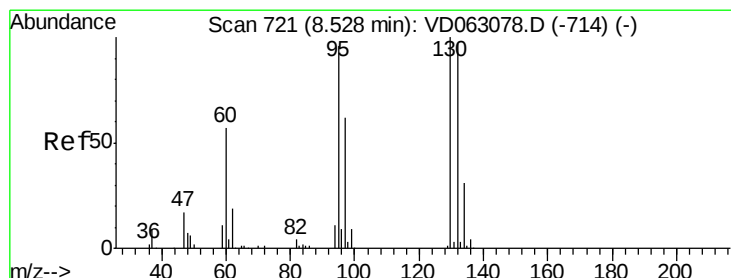
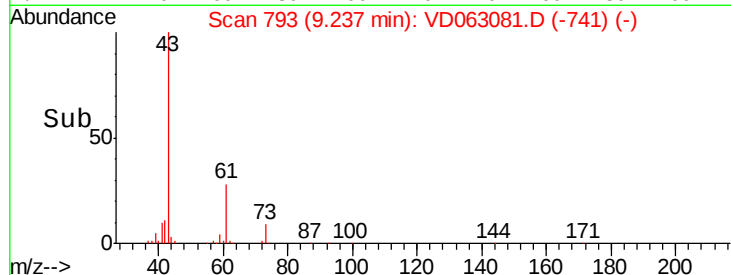
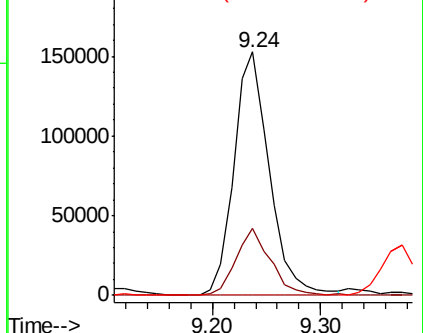
43 100

61 27.5 21.7 32.5

87 0.4 0.2 0.4#



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: 54.203 ug/l

RT: 8.53 min Scan# 721

Delta R.T. 0.00 min

Lab File: VD063081.D

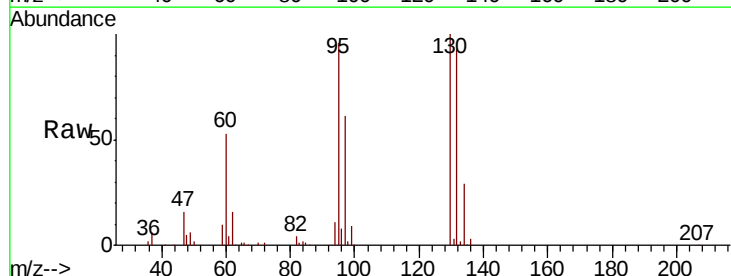
Acq: 15 Jul 2019 15:32

Tgt Ion:130 Resp: 499486

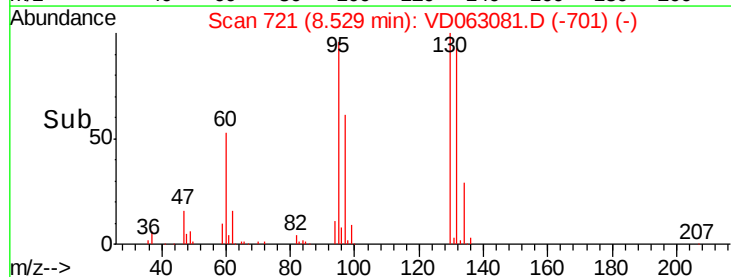
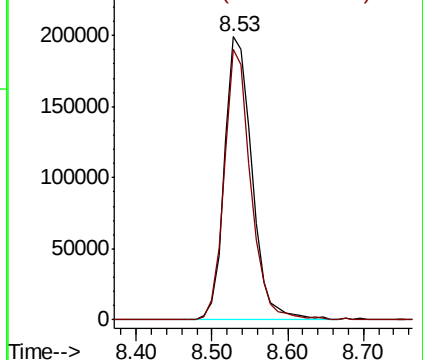
Ion Ratio Lower Upper

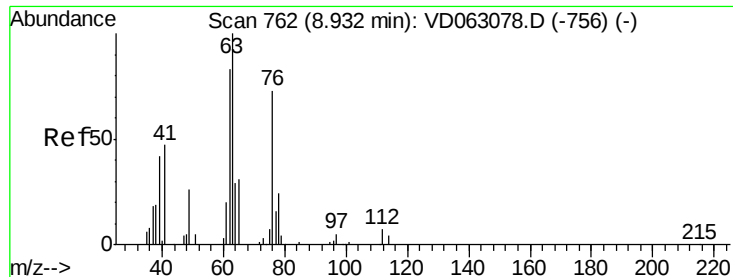
130 100

95 95.5 0.0 191.4



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





#45

1,2-Dichloropropane

Concen: 51.987 ug/l

RT: 8.93 min Scan# 762

Delta R.T. 0.00 min

Lab File: VD063081.D

Acq: 15 Jul 2019 15:32

Instrument :

MSVOA_D

ClientSampleId :

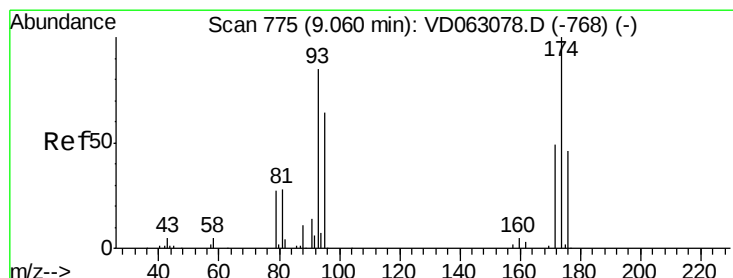
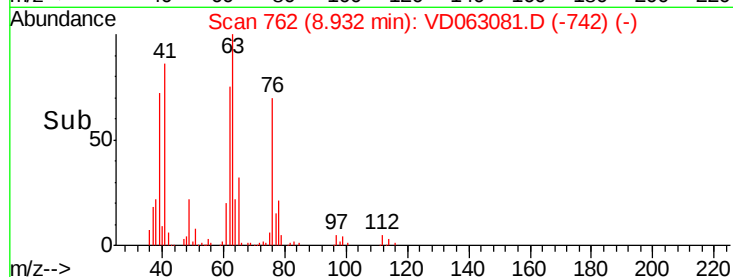
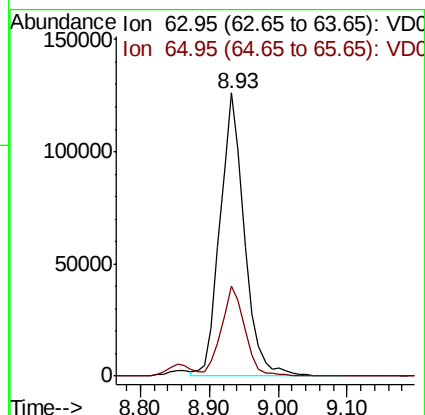
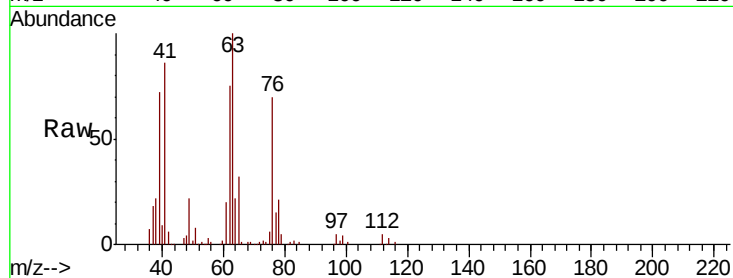
ICVVD071519

Tot Ion: 63 Resp: 309062

Ion Ratio Lower Upper

63 100

65 31.9 26.3 39.5



#46

Dibromomethane

Concen: 48.978 ug/l

RT: 9.06 min Scan# 775

Delta R.T. 0.00 min

Lab File: VD063081.D

Acq: 15 Jul 2019 15:32

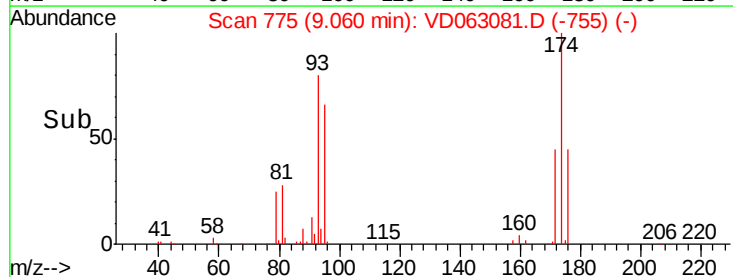
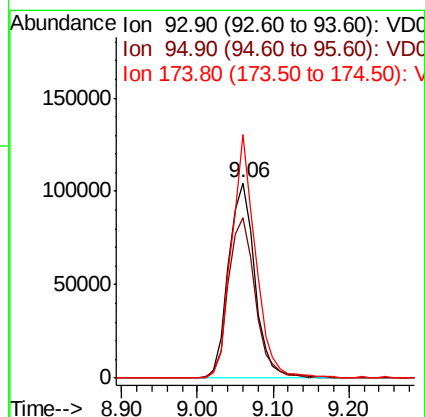
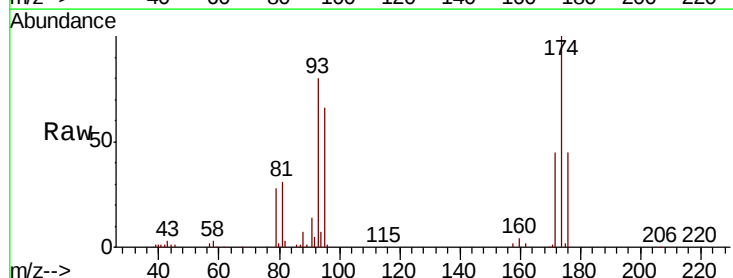
Tgt Ion: 93 Resp: 250213

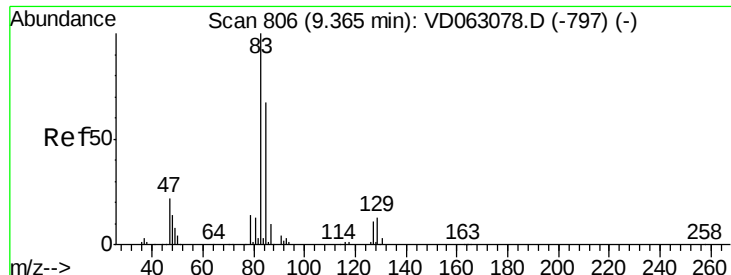
Ion Ratio Lower Upper

93 100

95 82.2 59.7 89.5

174 124.9 93.9 140.9





#47

Bromodichloromethane

Concen: 53.633 ug/l

RT: 9.38 min Scan# 807

Delta R.T. 0.01 min

Lab File: VD063081.D

Acq: 15 Jul 2019 15:32

Instrument :

MSVOA_D

ClientSampleId :

ICVVD071519

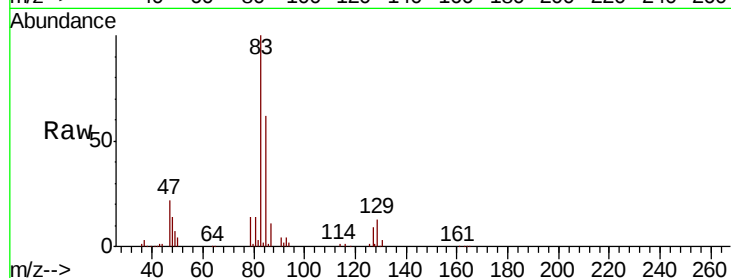
Tot Ion: 83 Resp: 714998

Ion Ratio Lower Upper

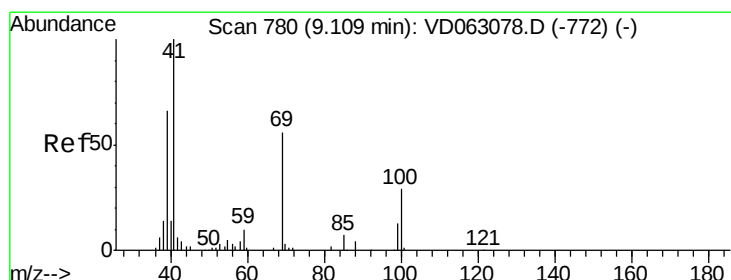
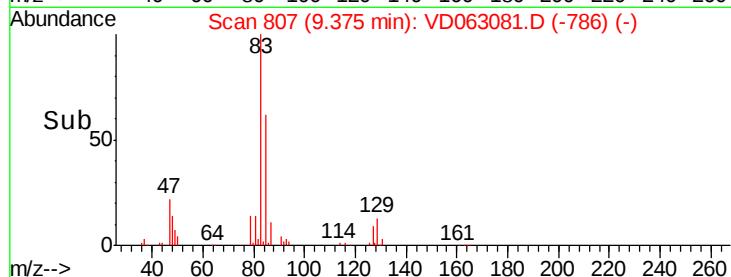
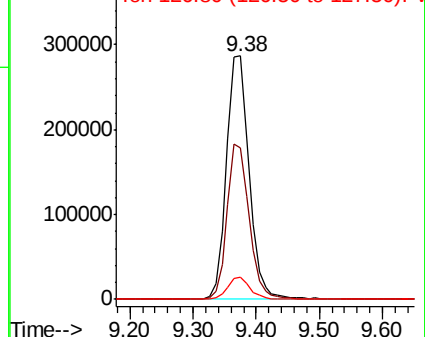
83 100

85 62.2 53.7 80.5

127 9.1 9.0 13.6



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: 51.309 ug/l

RT: 9.12 min Scan# 781

Delta R.T. 0.01 min

Lab File: VD063081.D

Acq: 15 Jul 2019 15:32

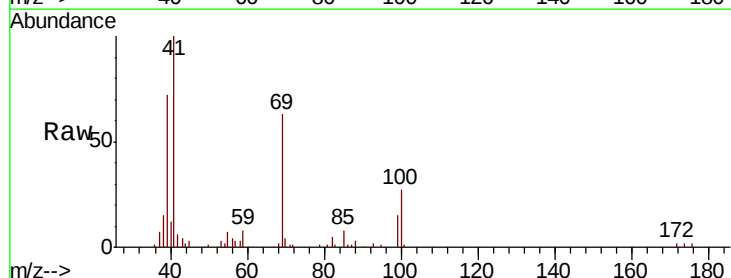
Tgt Ion: 41 Resp: 235320

Ion Ratio Lower Upper

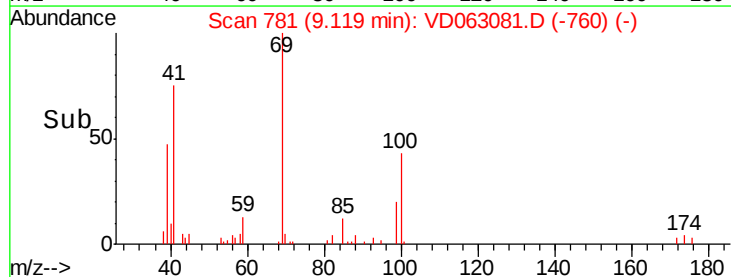
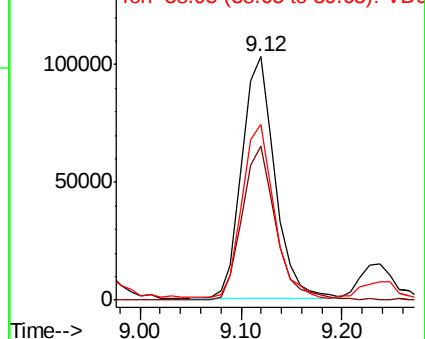
41 100

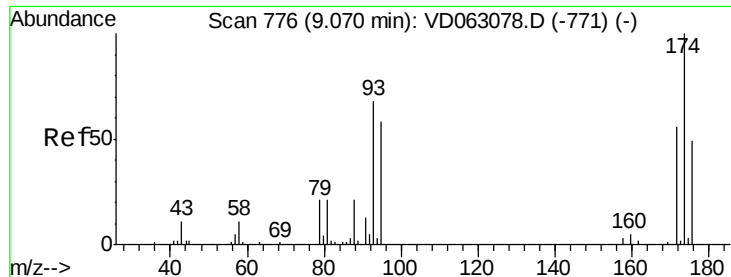
69 63.4 44.3 66.5

39 72.4 52.6 78.8



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

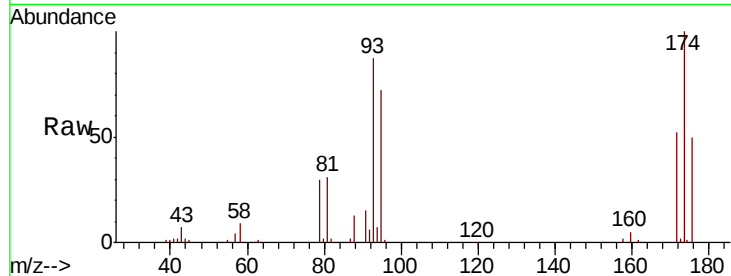




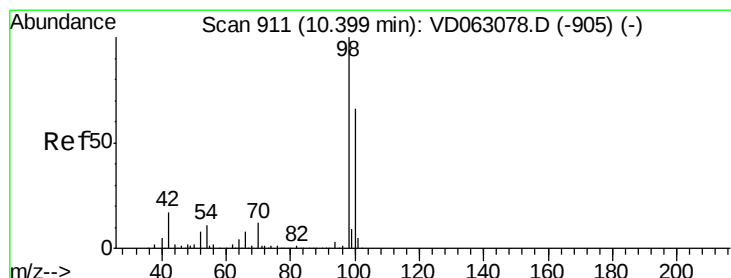
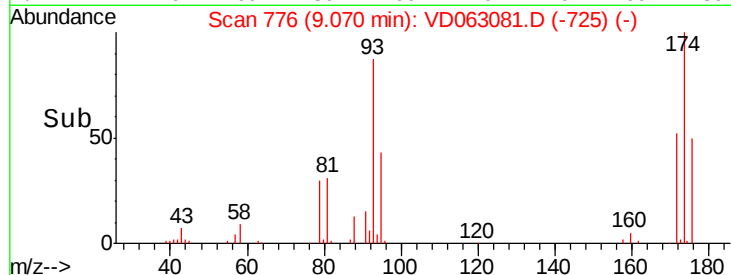
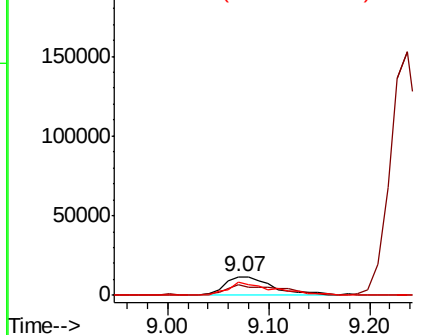
#49
1,4-Dioxane
Concen: 977.640 ug/l
RT: 9.07 min Scan# 776
Delta R.T. 0.00 min
Lab File: VD063081.D
Acq: 15 Jul 2019 15:32

Instrument :
MSVOA_D
ClientSampleId :
ICVVD071519

Tot Ion: 88 Resp: 38669
Ion Ratio Lower Upper
88 100
43 56.0 40.2 60.4
58 71.0 41.6 62.4#

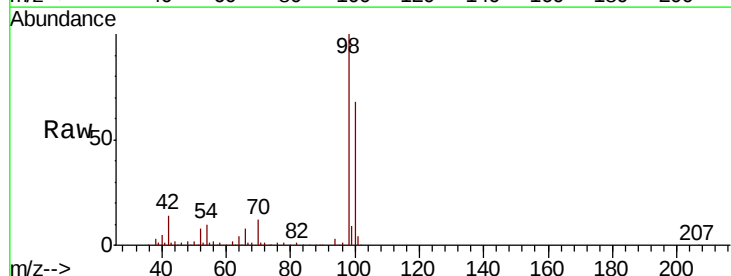


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

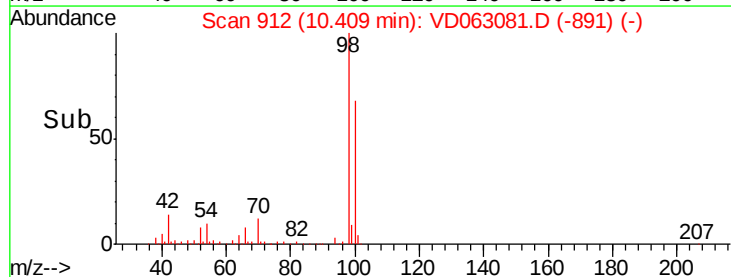
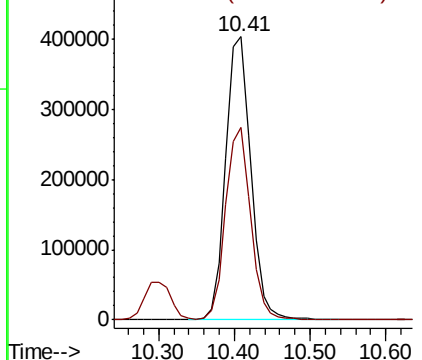


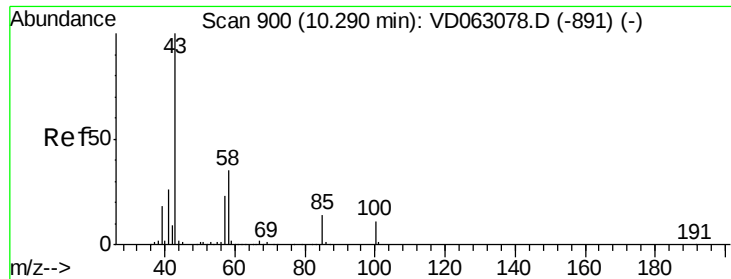
#50
Toluene-d8
Concen: 42.849 ug/l
RT: 10.41 min Scan# 912
Delta R.T. 0.01 min
Lab File: VD063081.D
Acq: 15 Jul 2019 15:32

Tgt Ion: 98 Resp: 927993
Ion Ratio Lower Upper
98 100
100 68.2 53.5 80.3



Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

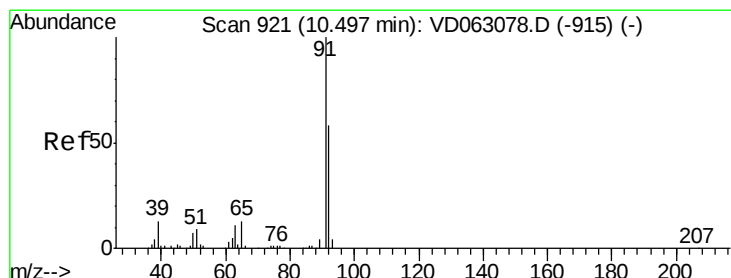
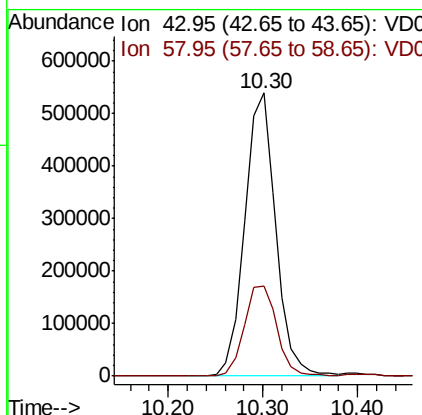
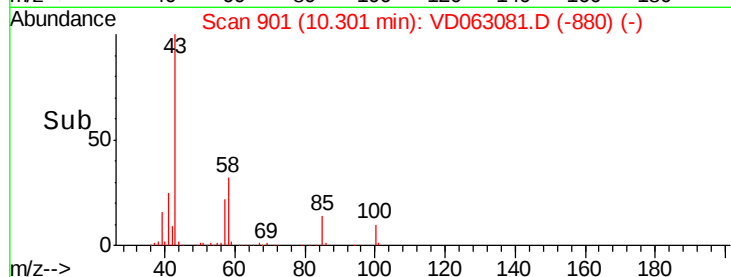
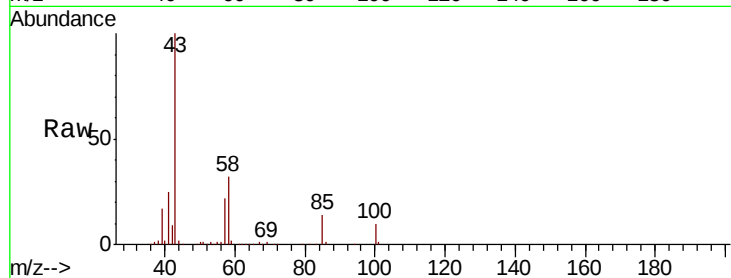




#51
 4-Methyl-2-Pentanone
 Concen: 263.697 ug/l
 RT: 10.30 min Scan# 901
 Delta R.T. 0.01 min
 Lab File: VD063081.D
 Acq: 15 Jul 2019 15:32

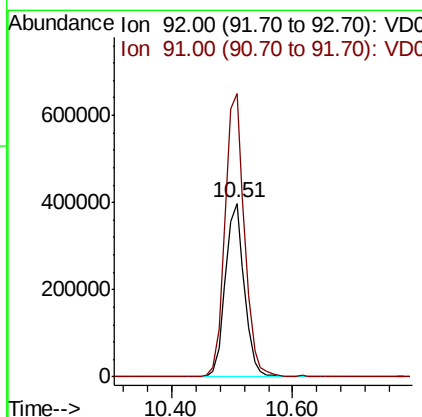
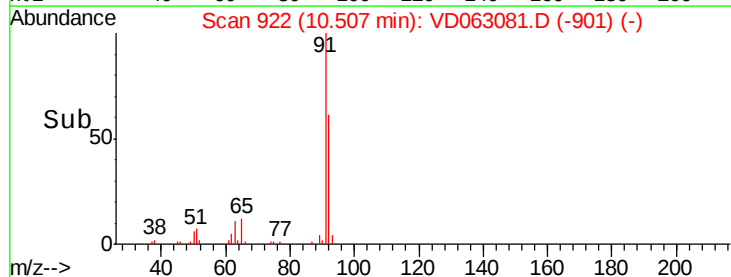
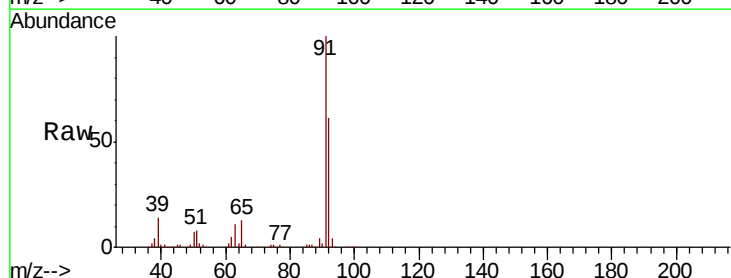
Instrument :
 MSVOA_D
 ClientSampleId :
 ICVVD071519

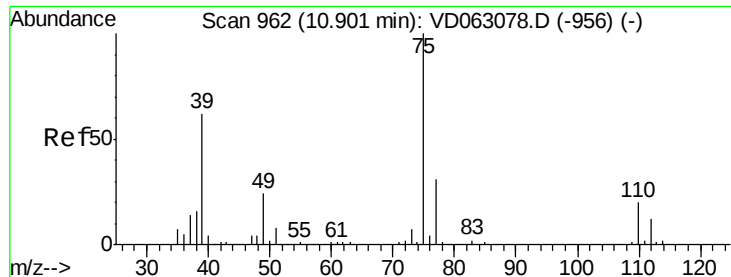
Tot Ion: 43 Resp: 1221481
 Ion Ratio Lower Upper
 43 100
 58 31.8 27.8 41.6



#52
 Toluene
 Concen: 54.607 ug/l
 RT: 10.51 min Scan# 922
 Delta R.T. 0.01 min
 Lab File: VD063081.D
 Acq: 15 Jul 2019 15:32

Tgt Ion: 92 Resp: 869489
 Ion Ratio Lower Upper
 92 100
 91 163.2 137.9 206.9

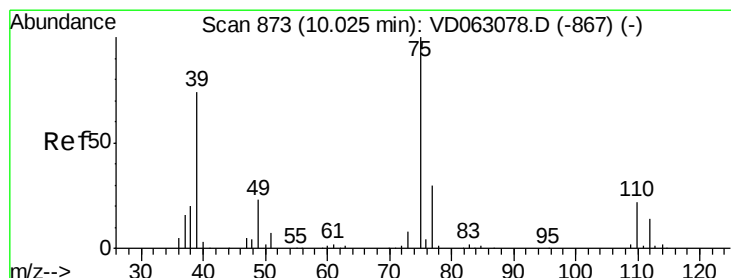
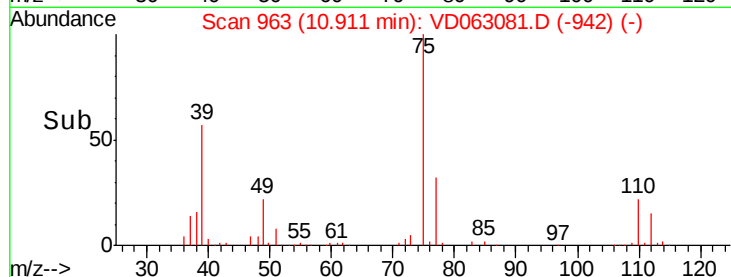
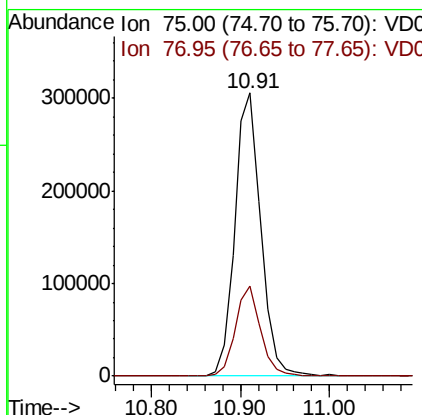
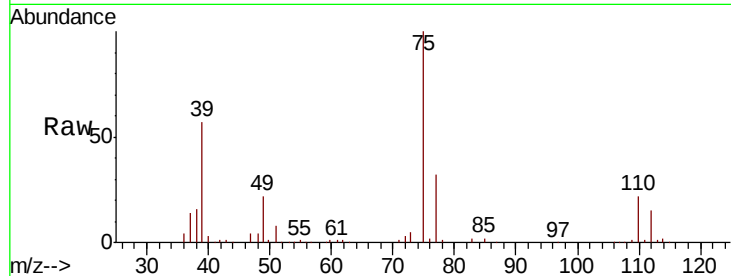




#53
 t-1,3-Dichloropropene
 Concen: 54.361 ug/l
 RT: 10.91 min Scan# 963
 Delta R.T. 0.01 min
 Lab File: VD063081.D
 Acq: 15 Jul 2019 15:32

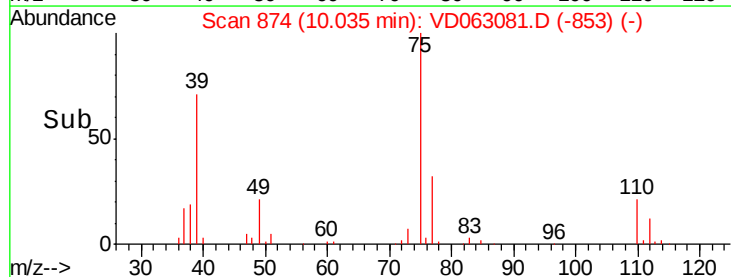
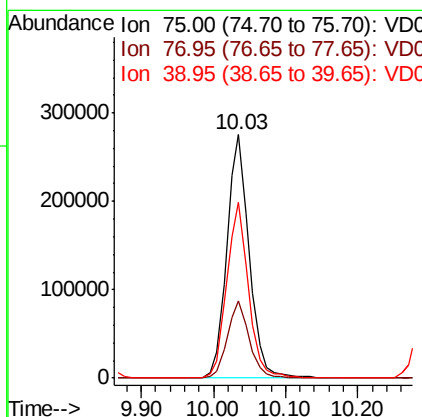
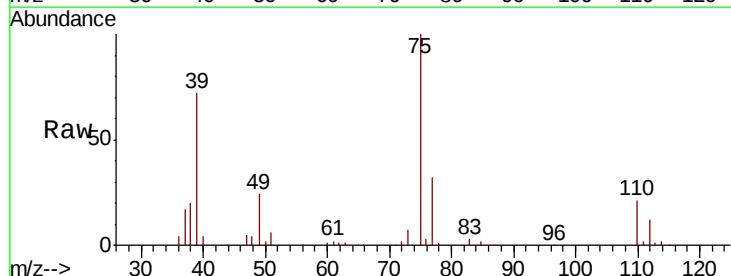
Instrument :
 MSVOA_D
 ClientSampleId :
 ICVVD071519

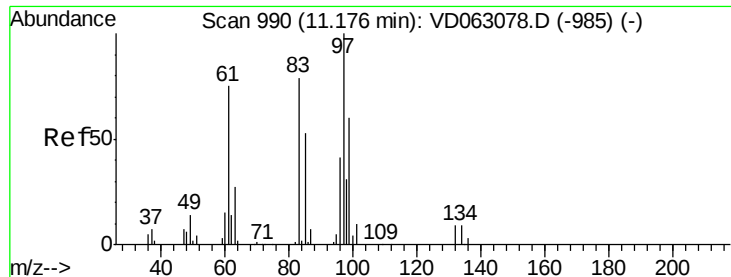
Tot Ion: 75 Resp: 620882
 Ion Ratio Lower Upper
 75 100
 77 31.8 24.9 37.3



#54
 cis-1,3-Dichloropropene
 Concen: 49.899 ug/l
 RT: 10.03 min Scan# 874
 Delta R.T. 0.01 min
 Lab File: VD063081.D
 Acq: 15 Jul 2019 15:32

Tgt Ion: 75 Resp: 589293
 Ion Ratio Lower Upper
 75 100
 77 31.8 23.9 35.9
 39 72.1 59.4 89.0





#55

1,1,2-Trichloroethane

Concen: 50.340 ug/l

RT: 11.19 min Scan# 991

Delta R.T. 0.01 min

Lab File: VD063081.D

Acq: 15 Jul 2019 15:32

Instrument :

MSVOA_D

ClientSampleId :

ICVVD071519

Tot Ion: 97 Resp: 277001

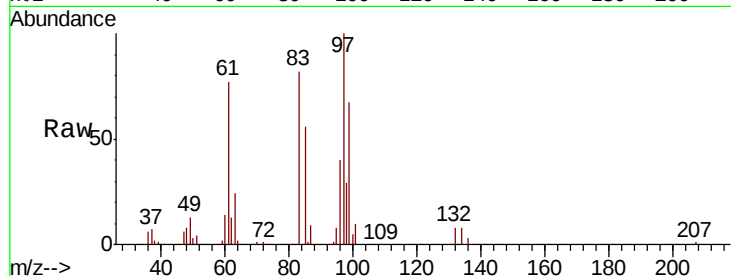
Ion Ratio Lower Upper

97 100

83 82.2 63.2 94.8

85 55.6 42.0 63.0

99 67.4 48.3 72.5

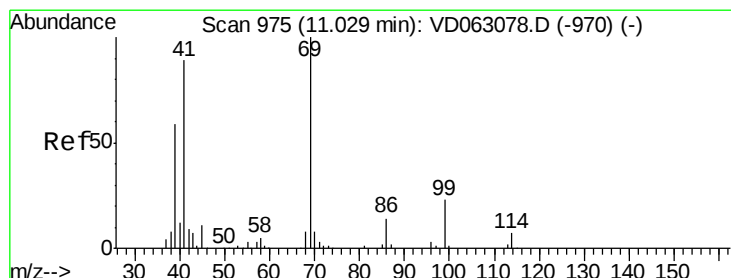
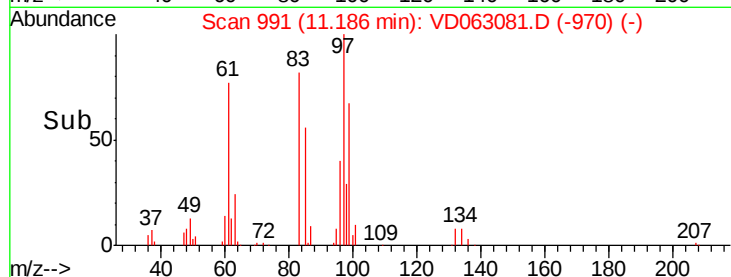
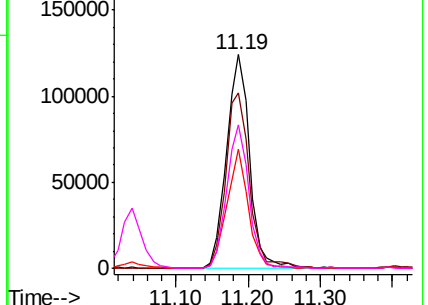


Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC



#56

Ethyl methacrylate

Concen: 47.692 ug/l

RT: 11.04 min Scan# 976

Delta R.T. 0.01 min

Lab File: VD063081.D

Acq: 15 Jul 2019 15:32

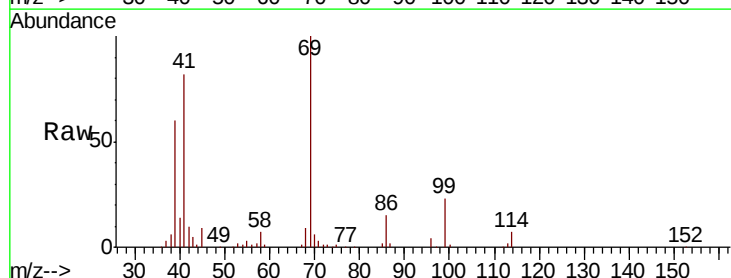
Tgt Ion: 69 Resp: 293213

Ion Ratio Lower Upper

69 100

41 82.0 71.0 106.4

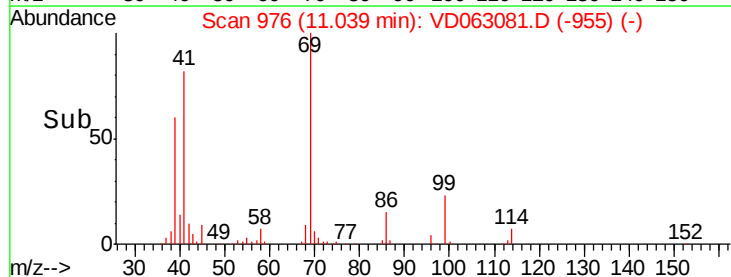
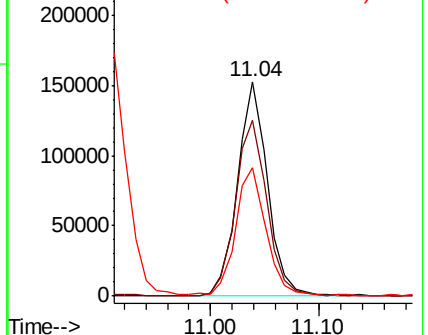
39 60.2 47.7 71.5

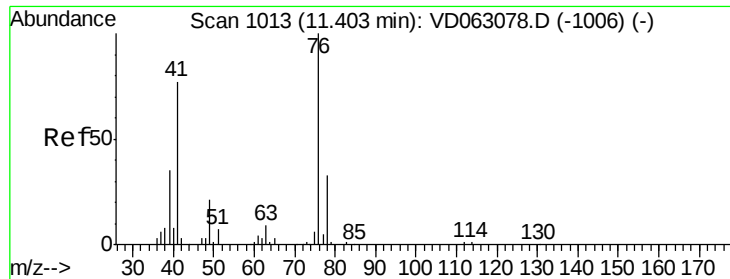


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC





#57

1,3-Dichloropropane

Concen: 49.483 ug/l

RT: 11.40 min Scan# 1013

Delta R.T. 0.00 min

Lab File: VD063081.D

Acq: 15 Jul 2019 15:32

Instrument :

MSVOA_D

ClientSampleId :

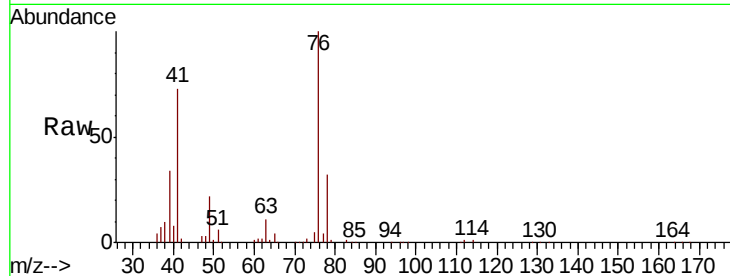
ICVVD071519

Tot Ion: 76 Resp: 414323

Ion Ratio Lower Upper

76 100

78 31.6 26.8 40.2



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC

250000

200000

150000

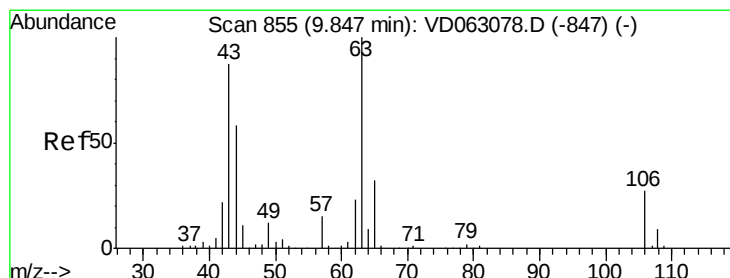
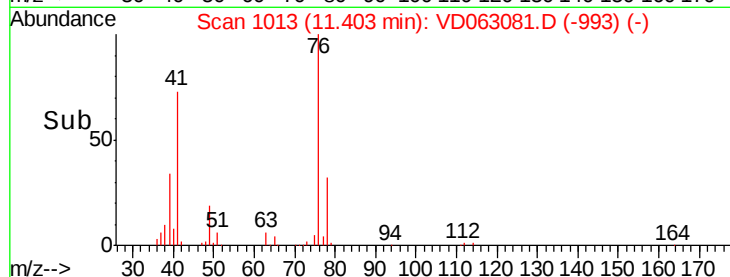
100000

50000

0

11.30 11.40 11.50

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 251.665 ug/l

RT: 9.86 min Scan# 856

Delta R.T. 0.01 min

Lab File: VD063081.D

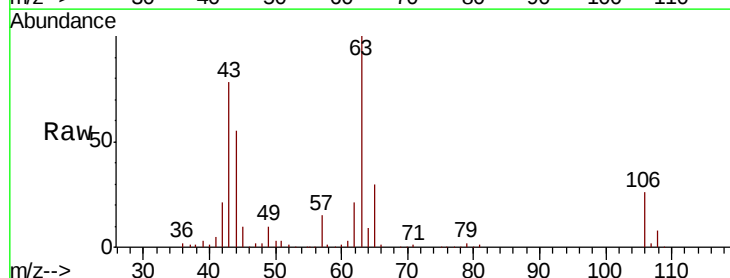
Acq: 15 Jul 2019 15:32

Tgt Ion: 63 Resp: 861525

Ion Ratio Lower Upper

63 100

106 26.2 21.3 31.9



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

400000

300000

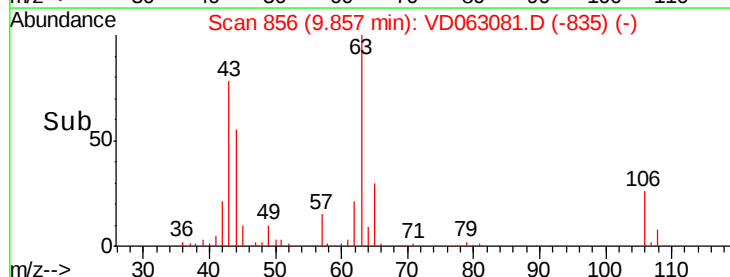
200000

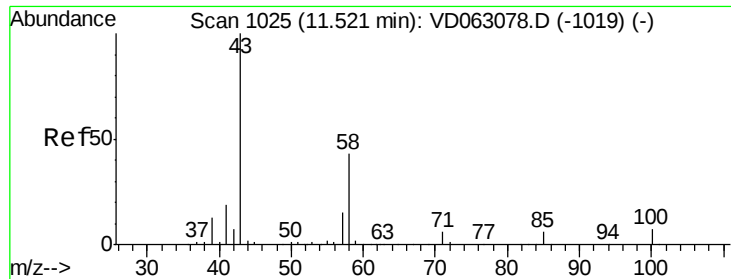
100000

0

9.70 9.80 9.90 10.00

Time-->

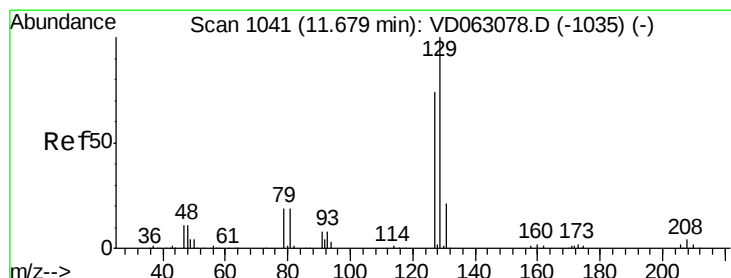
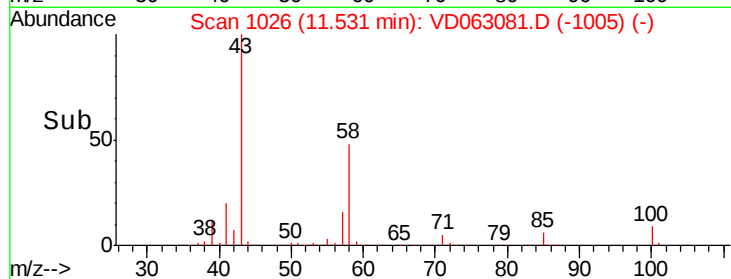
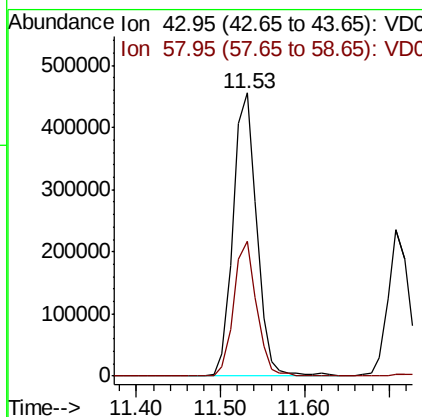
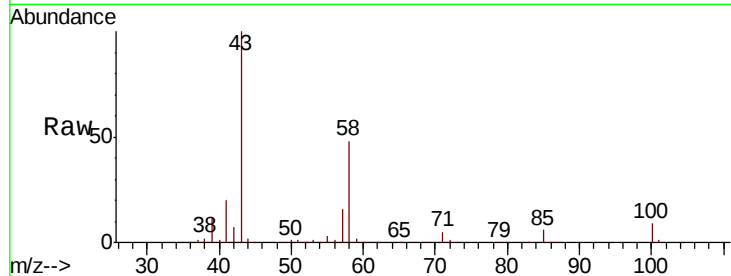




#59
2-Hexanone
Concen: 249.749 ug/l
RT: 11.53 min Scan# 1026
Delta R.T. 0.01 min
Lab File: VD063081.D
Acq: 15 Jul 2019 15:32

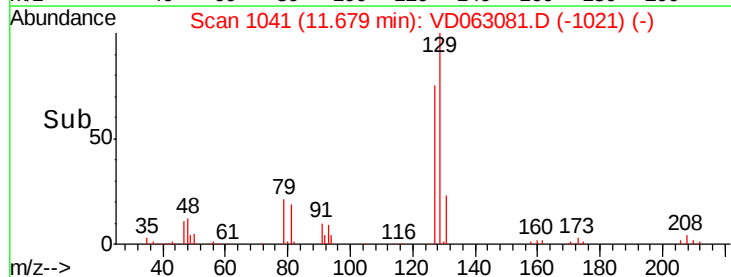
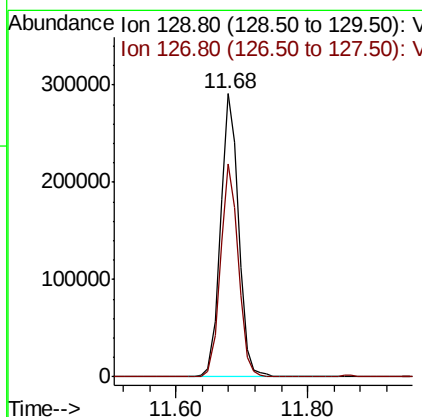
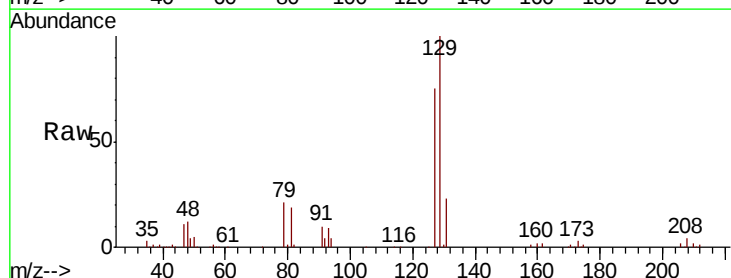
Instrument :
MSVOA_D
ClientSampleId :
ICVVD071519

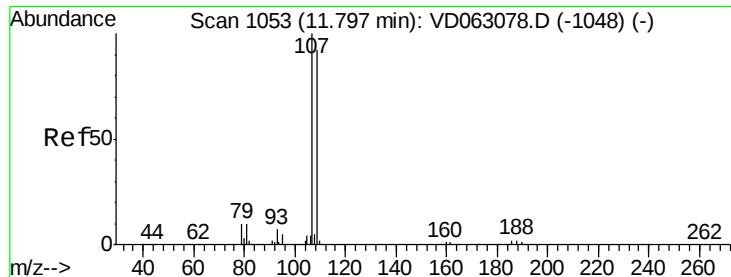
Tot Ion: 43 Resp: 892190
Ion Ratio Lower Upper
43 100
58 47.8 21.7 65.1



#60
Dibromochloromethane
Concen: 52.678 ug/l
RT: 11.68 min Scan# 1041
Delta R.T. 0.00 min
Lab File: VD063081.D
Acq: 15 Jul 2019 15:32

Tgt Ion: 129 Resp: 555642
Ion Ratio Lower Upper
129 100
127 75.4 37.0 110.9





#61

1,2-Dibromoethane

Concen: 50.654 ug/l

RT: 11.80 min Scan# 1053

Delta R.T. 0.00 min

Lab File: VD063081.D

Acq: 15 Jul 2019 15:32

Instrument :

MSVOA_D

ClientSampleId :

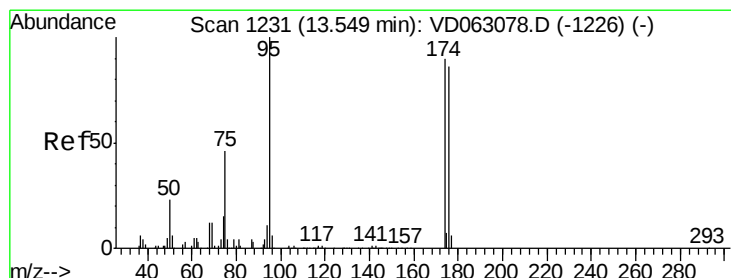
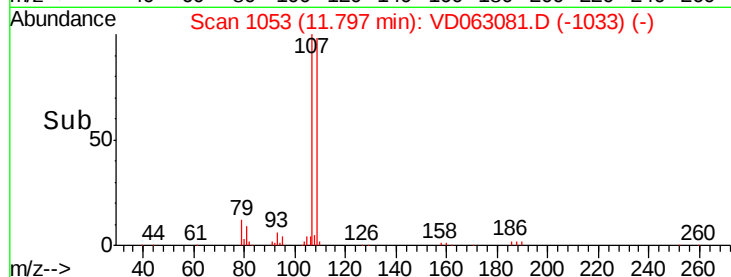
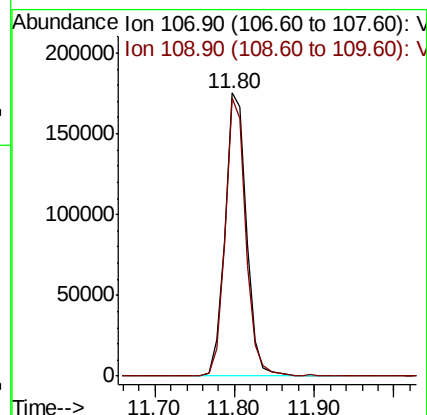
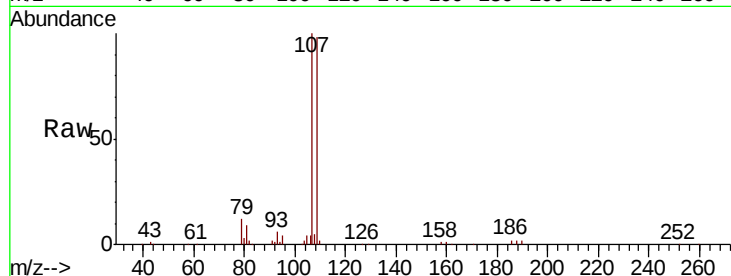
ICVVD071519

Tot Ion:107 Resp: 333635

Ion Ratio Lower Upper

107 100

109 98.5 73.6 110.4



#62

4-Bromofluorobenzene

Concen: 40.976 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. 0.00 min

Lab File: VD063081.D

Acq: 15 Jul 2019 15:32

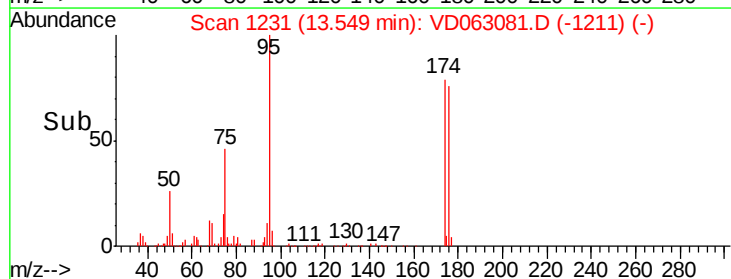
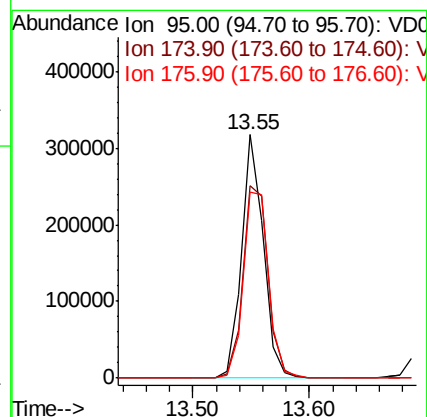
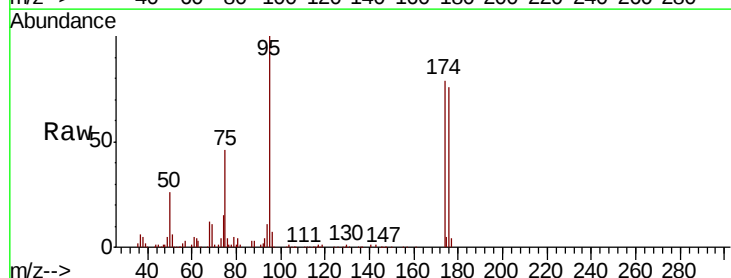
Tgt Ion: 95 Resp: 410558

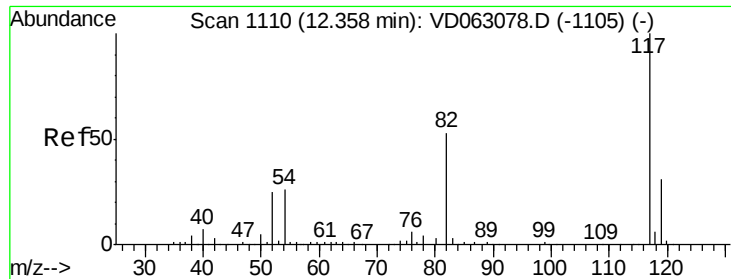
Ion Ratio Lower Upper

95 100

174 79.3 0.0 180.6

176 76.3 0.0 172.2

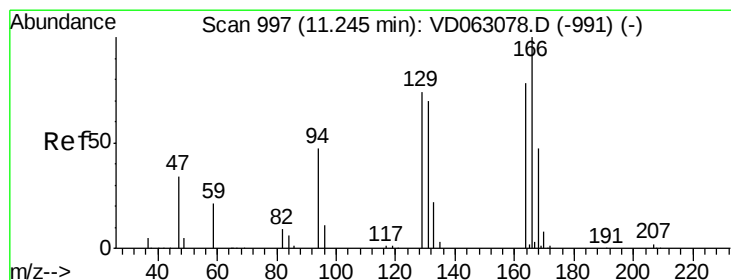
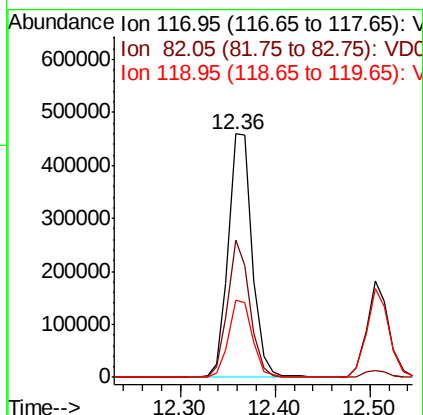
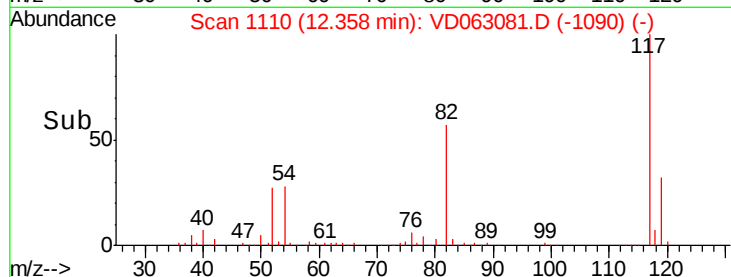
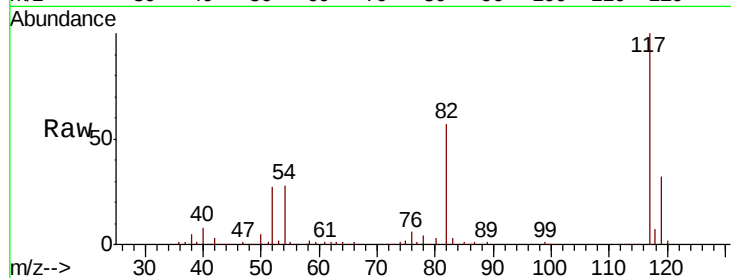




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1110
Delta R.T. 0.00 min
Lab File: VD063081.D
Acq: 15 Jul 2019 15:32

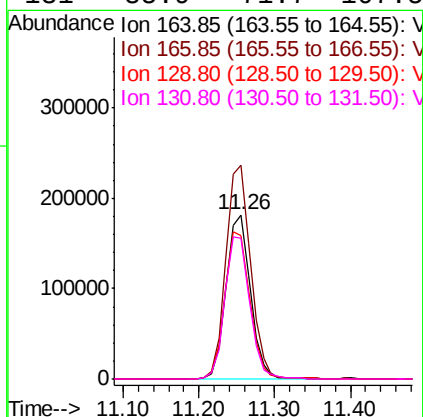
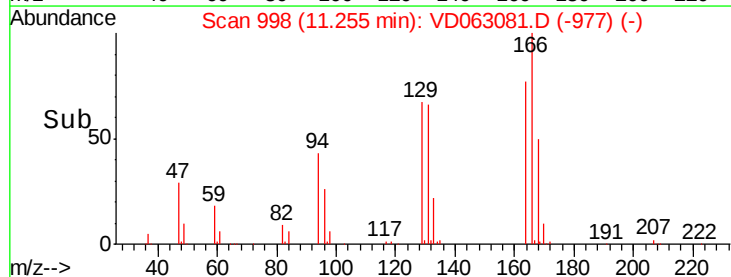
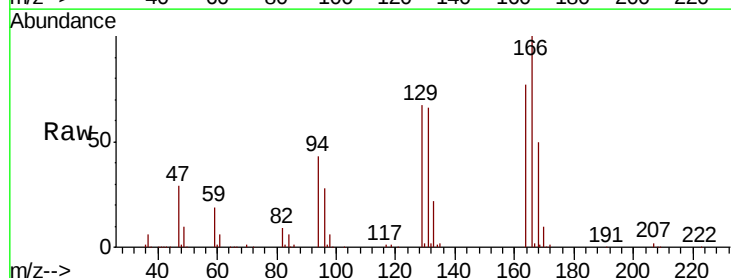
Instrument :
MSVOA_D
ClientSampleId :
ICVVD071519

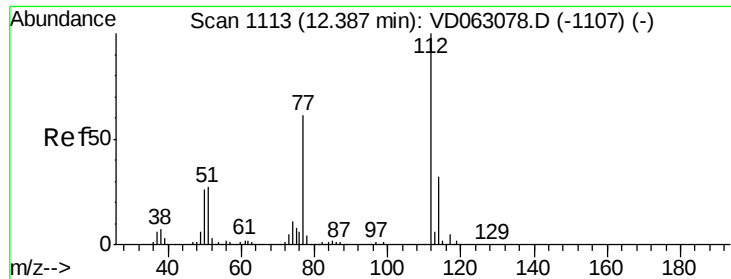
Tot Ion:117 Resp: 808399
Ion Ratio Lower Upper
117 100
82 56.7 42.3 63.5
119 31.8 25.2 37.8



#64
Tetrachloroethene
Concen: 51.449 ug/l
RT: 11.26 min Scan# 998
Delta R.T. 0.01 min
Lab File: VD063081.D
Acq: 15 Jul 2019 15:32

Tgt Ion:164 Resp: 403573
Ion Ratio Lower Upper
164 100
166 130.3 102.8 154.2
129 87.7 76.4 114.6
131 85.9 71.7 107.5

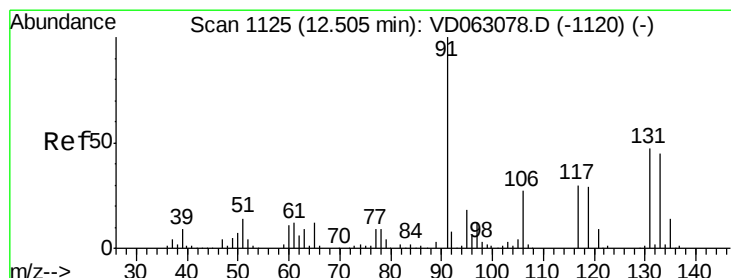
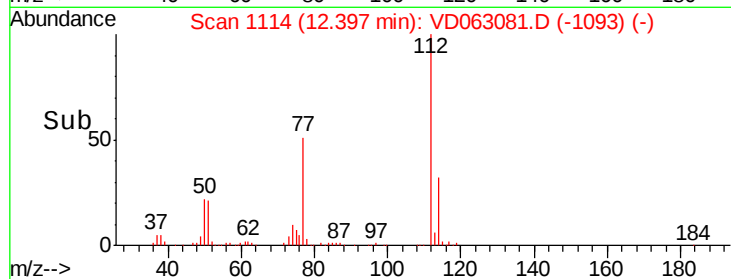
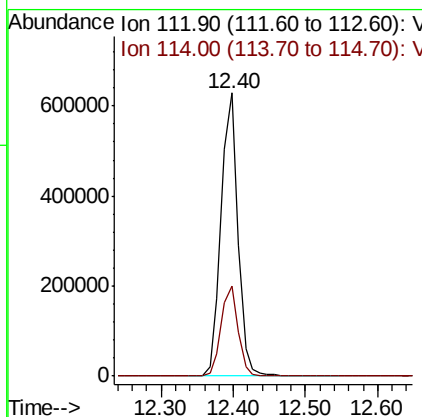
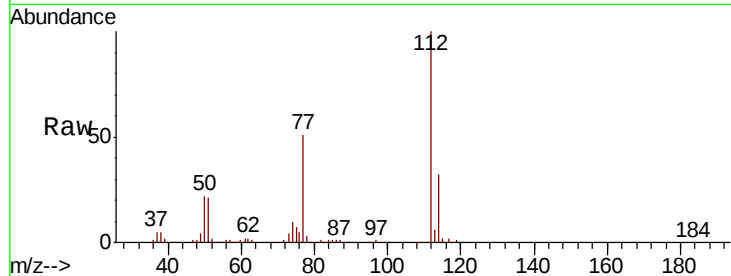




#65
Chlorobenzene
Concen: 53.320 ug/l
RT: 12.40 min Scan# 1114
Delta R.T. 0.01 min
Lab File: VD063081.D
Acq: 15 Jul 2019 15:32

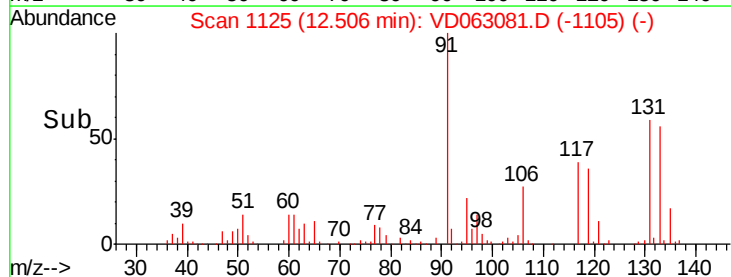
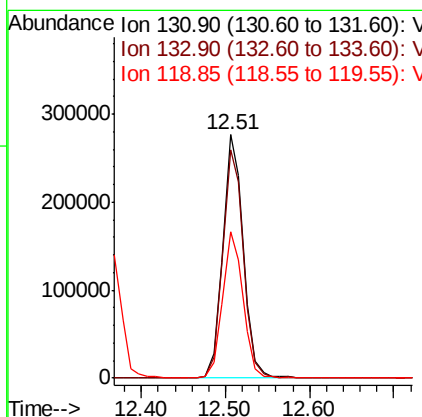
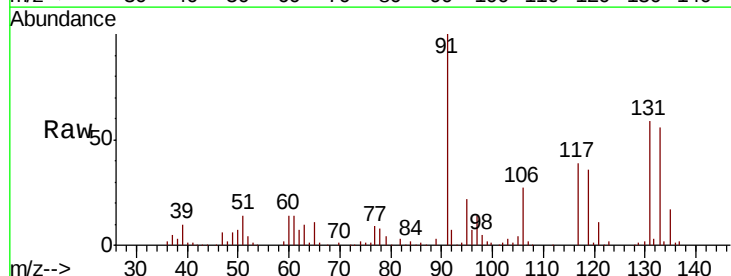
Instrument :
MSVOA_D
ClientSampleId :
ICVVD071519

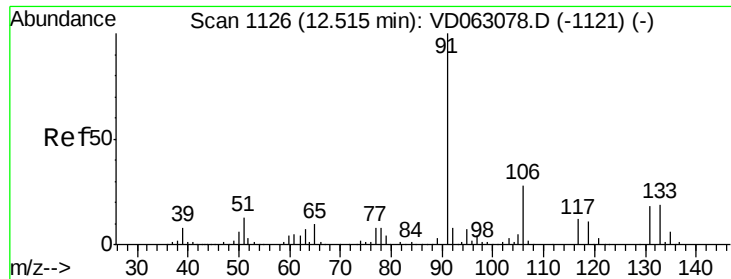
Tot Ion:112 Resp: 1013239
Ion Ratio Lower Upper
112 100
114 32.0 25.9 38.9



#66
1,1,1,2-Tetrachloroethane
Concen: 52.583 ug/l
RT: 12.51 min Scan# 1125
Delta R.T. 0.00 min
Lab File: VD063081.D
Acq: 15 Jul 2019 15:32

Tgt Ion:131 Resp: 463279
Ion Ratio Lower Upper
131 100
133 93.9 48.5 145.6
119 60.3 30.8 92.3

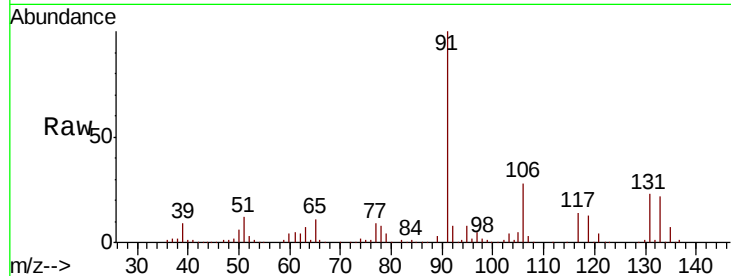




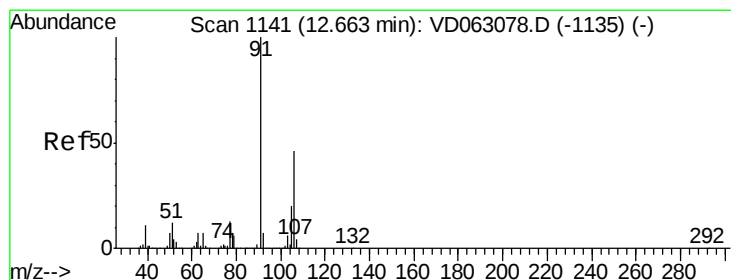
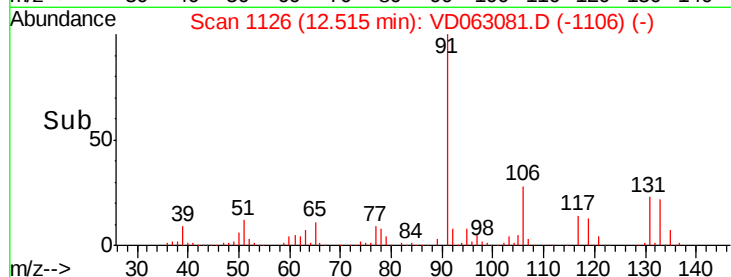
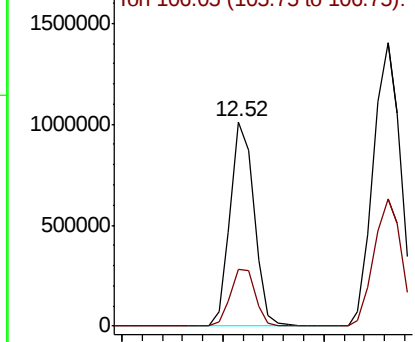
#67
Ethyl Benzene
Concen: 50.685 ug/l
RT: 12.52 min Scan# 1126
Delta R.T. 0.00 min
Lab File: VD063081.D
Acq: 15 Jul 2019 15:32

Instrument :
MSVOA_D
ClientSampleId :
ICVVD071519

Tot Ion: 91 Resp: 1673534
Ion Ratio Lower Upper
91 100
106 28.1 22.5 33.7

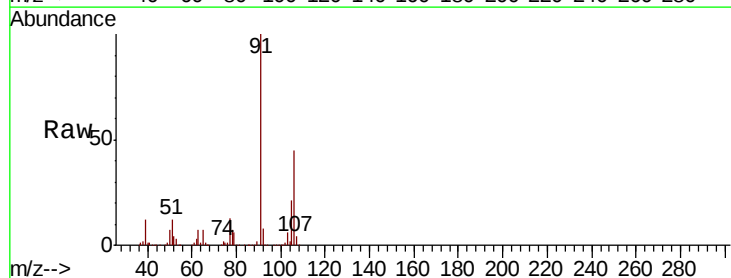


Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 106.05 (105.75 to 106.75): V

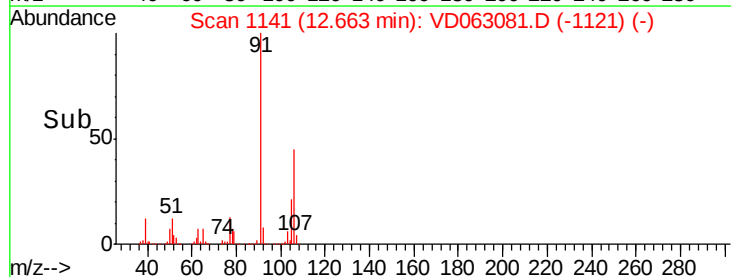
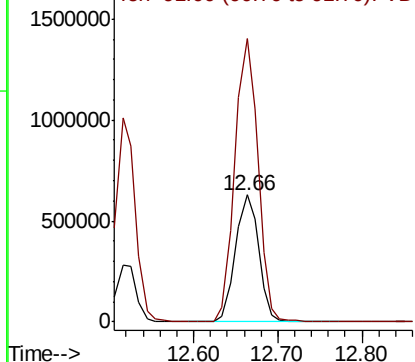


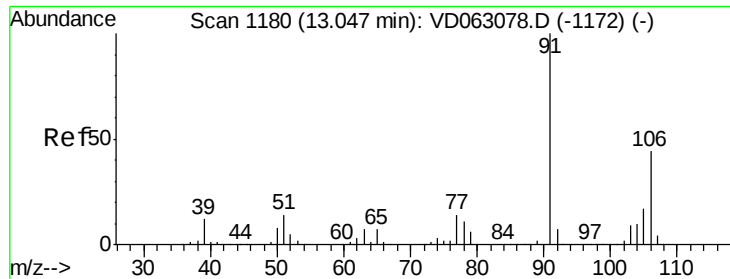
#68
m/p-Xylenes
Concen: 102.337 ug/l
RT: 12.66 min Scan# 1141
Delta R.T. 0.00 min
Lab File: VD063081.D
Acq: 15 Jul 2019 15:32

Tgt Ion: 106 Resp: 1210251
Ion Ratio Lower Upper
106 100
91 223.3 173.0 259.6



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

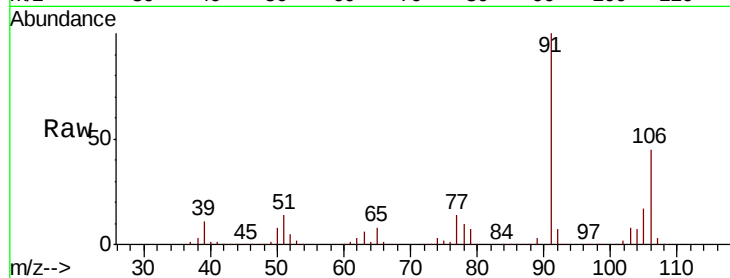




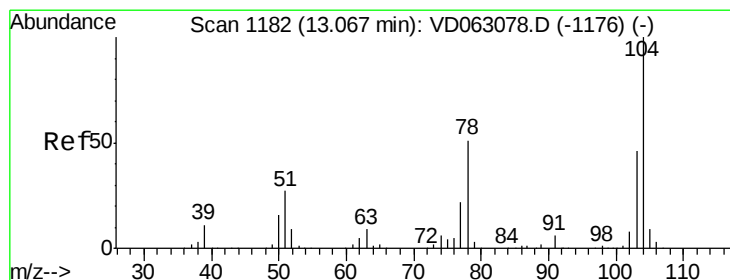
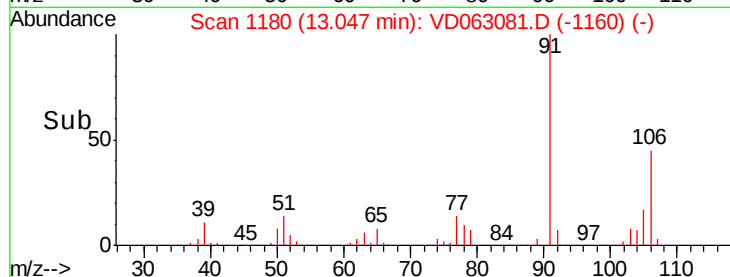
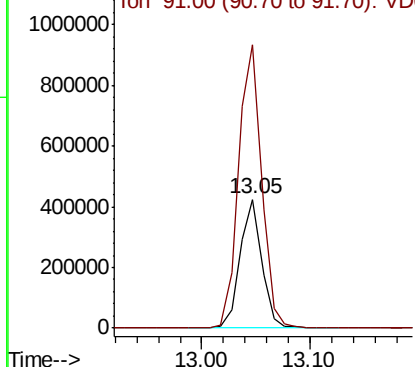
#69
o-Xylene
Concen: 53.153 ug/l
RT: 13.05 min Scan# 1180
Delta R.T. 0.00 min
Lab File: VD063081.D
Acq: 15 Jul 2019 15:32

Instrument :
MSVOA_D
ClientSampleId :
ICVVD071519

Tot Ion:106 Resp: 596049
Ion Ratio Lower Upper
106 100
91 220.0 114.9 344.7

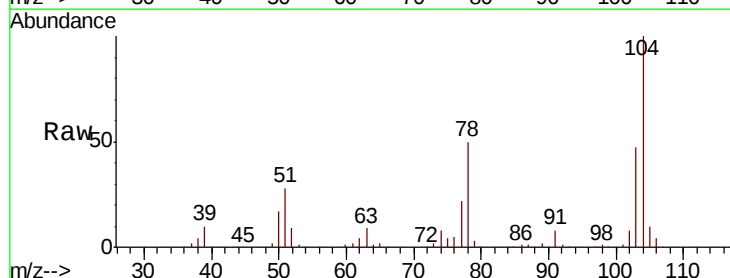


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

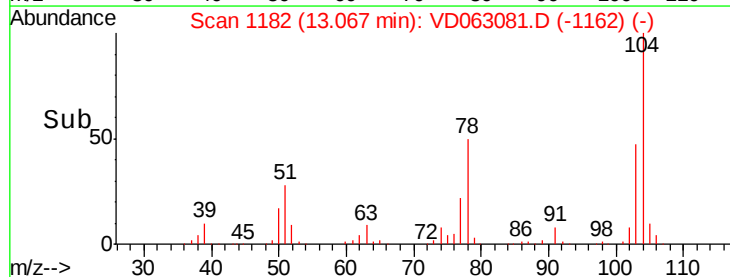
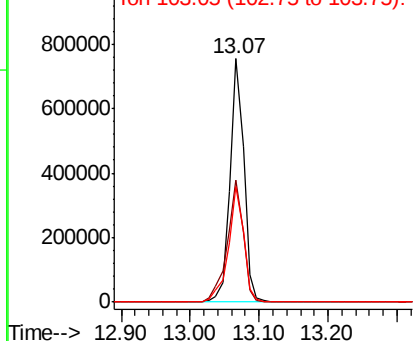


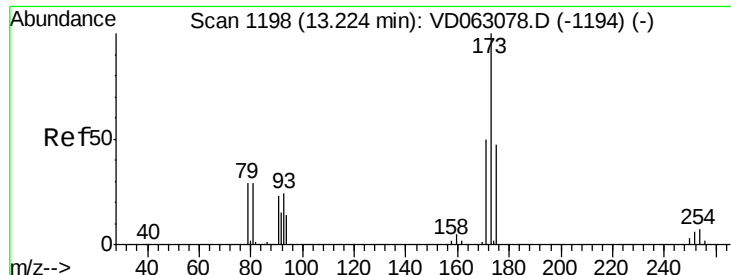
#70
Styrene
Concen: 53.474 ug/l
RT: 13.07 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VD063081.D
Acq: 15 Jul 2019 15:32

Tgt Ion:104 Resp: 1049622
Ion Ratio Lower Upper
104 100
78 50.1 41.1 61.7
103 47.3 37.0 55.6



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





#71

Bromoform

Concen: 54.324 ug/l

RT: 13.23 min Scan# 1199

Delta R.T. 0.01 min

Lab File: VD063081.D

Acq: 15 Jul 2019 15:32

Instrument :

MSVOA_D

ClientSampleId :

ICVVD071519

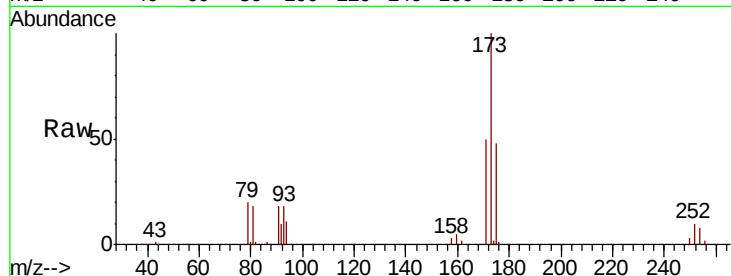
Tot Ion:173 Resp: 335078

Ion Ratio Lower Upper

173 100

175 47.9 23.4 70.2

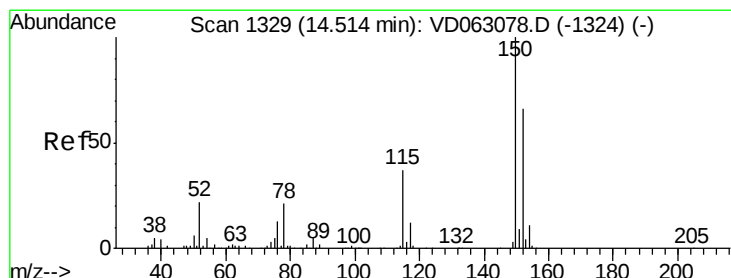
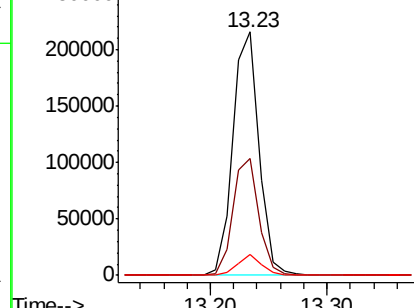
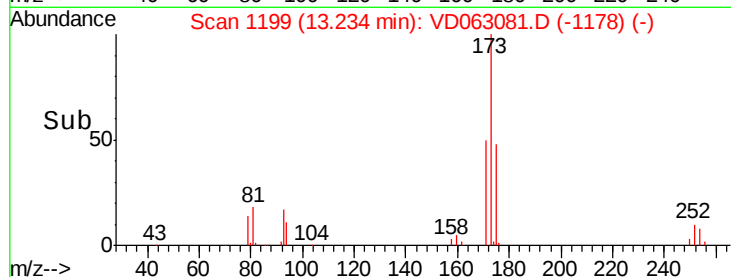
254 8.4 5.4 8.0#



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. 0.00 min

Lab File: VD063081.D

Acq: 15 Jul 2019 15:32

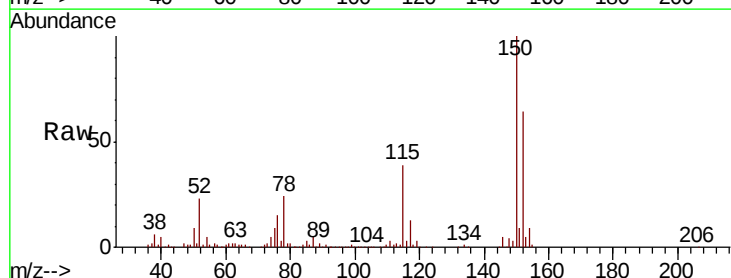
Tgt Ion:152 Resp: 439095

Ion Ratio Lower Upper

152 100

115 60.8 28.9 86.8

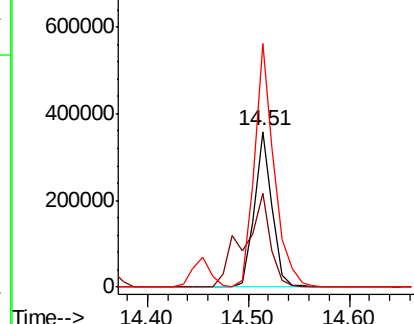
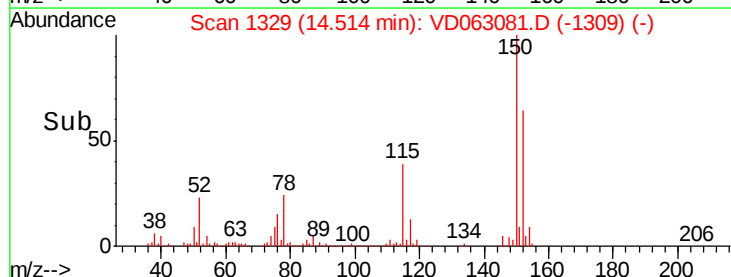
150 156.7 0.0 313.8

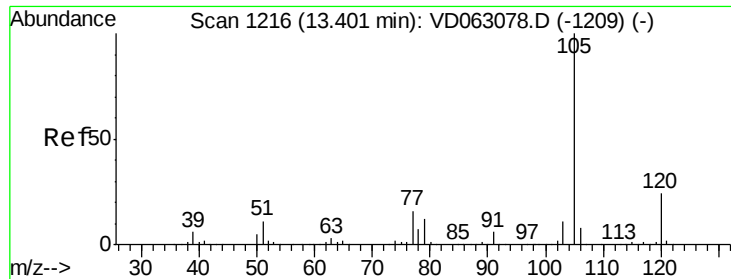


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 51.717 ug/l

RT: 13.40 min Scan# 1216

Delta R.T. 0.00 min

Lab File: VD063081.D

Acq: 15 Jul 2019 15:32

Instrument :

MSVOA_D

ClientSampleId :

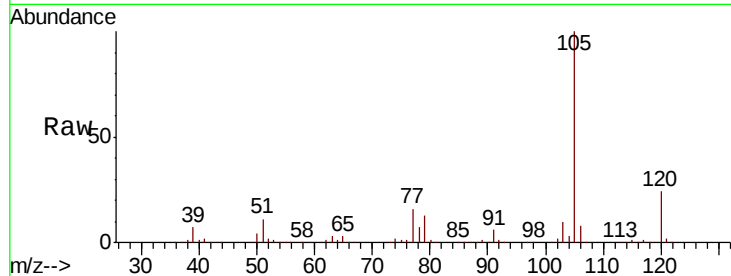
ICVVD071519

Tot Ion:105 Resp: 1753727

Ion Ratio Lower Upper

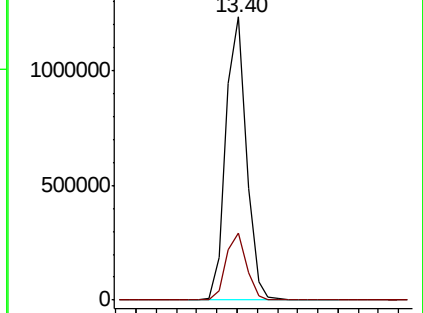
105 100

120 23.9 12.2 36.4

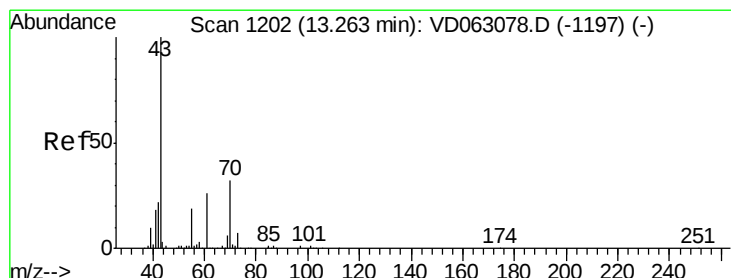
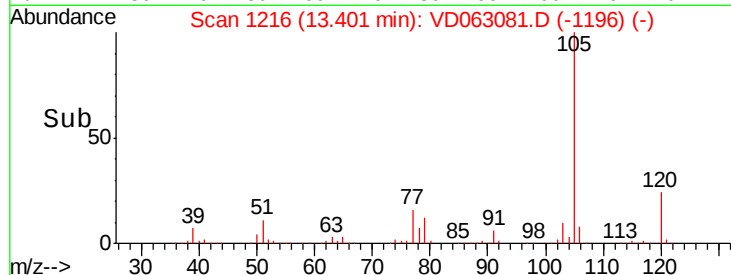


Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



Time--> 13.30 13.40 13.50



#74

N-ethyl acetate

Concen: 48.837 ug/l

RT: 13.26 min Scan# 1202

Delta R.T. 0.00 min

Lab File: VD063081.D

Acq: 15 Jul 2019 15:32

Tgt Ion: 43 Resp: 461862

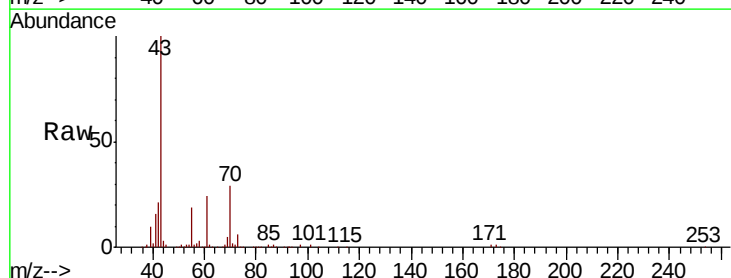
Ion Ratio Lower Upper

43 100

70 28.8 25.5 38.3

55 19.3 15.4 23.0

61 24.1 20.6 31.0

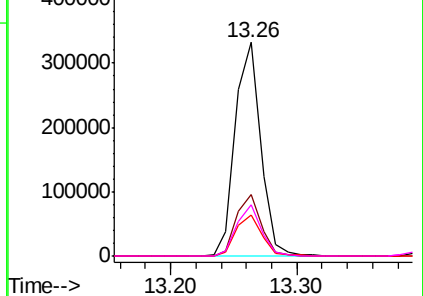


Abundance Ion 42.95 (42.65 to 43.65): VDC

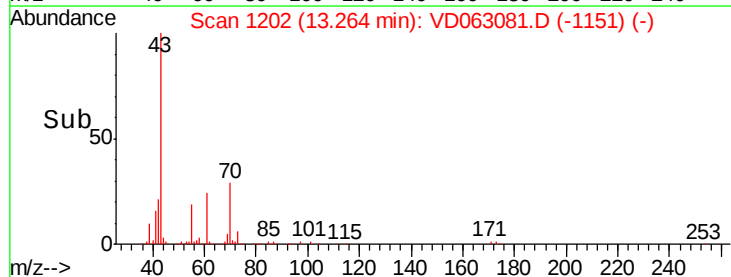
Ion 70.00 (69.70 to 70.70): VDC

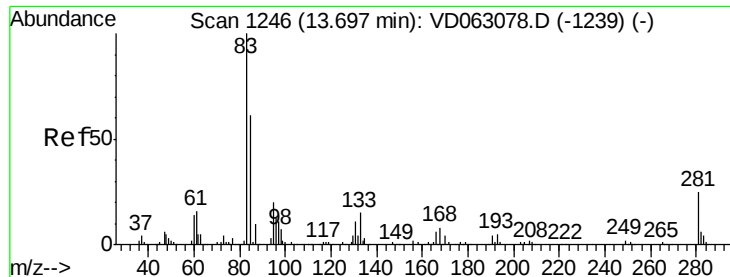
Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC



Time--> 13.20 13.30





#75

1,1,2,2-Tetrachloroethane

Concen: 51.117 ug/l

RT: 13.70 min Scan# 1246

Delta R.T. 0.00 min

Lab File: VD063081.D

Acq: 15 Jul 2019 15:32

Instrument :

MSVOA_D

ClientSampleId :

ICVVD071519

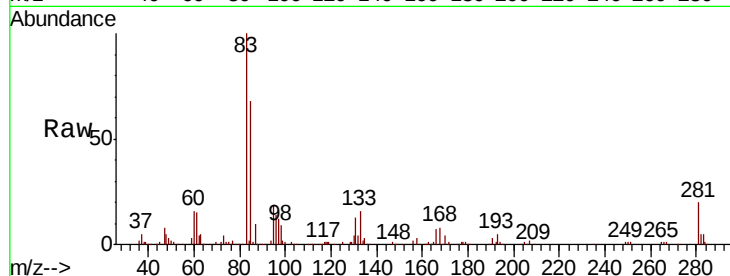
Tot Ion: 83 Resp: 315375

Ion Ratio Lower Upper

83 100

131 13.1 5.5 16.7

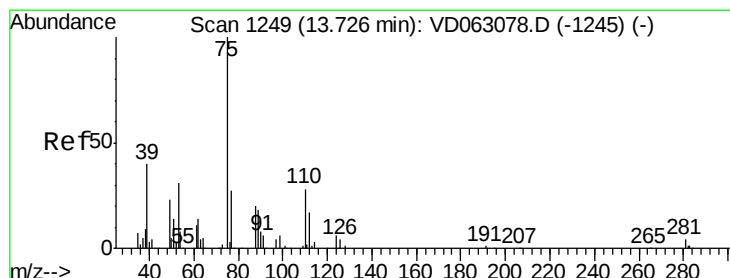
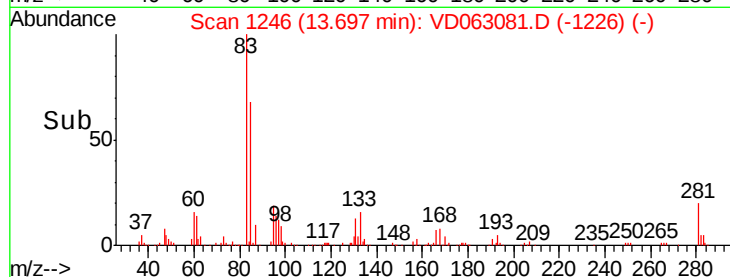
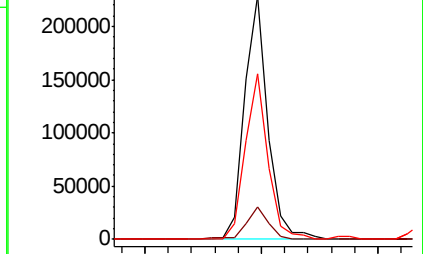
85 68.2 30.7 92.1



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: 52.579 ug/l

RT: 13.73 min Scan# 1249

Delta R.T. 0.00 min

Lab File: VD063081.D

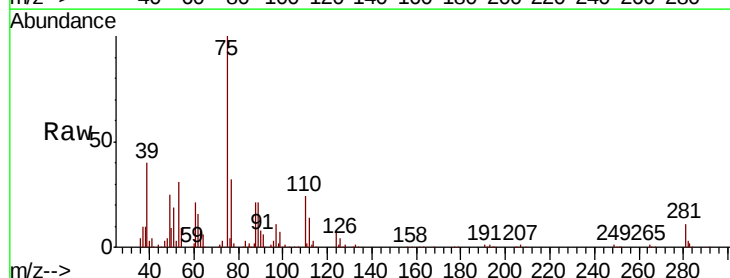
Acq: 15 Jul 2019 15:32

Tgt Ion: 75 Resp: 355148

Ion Ratio Lower Upper

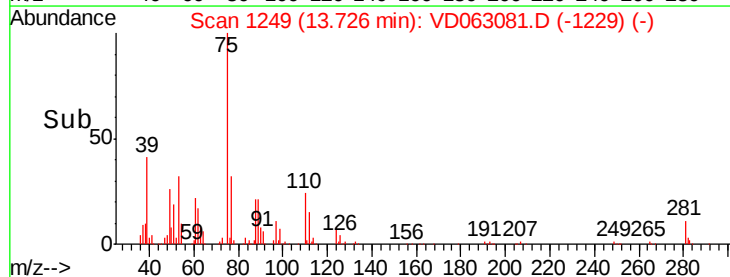
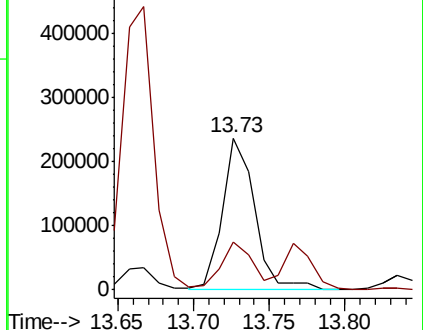
75 100

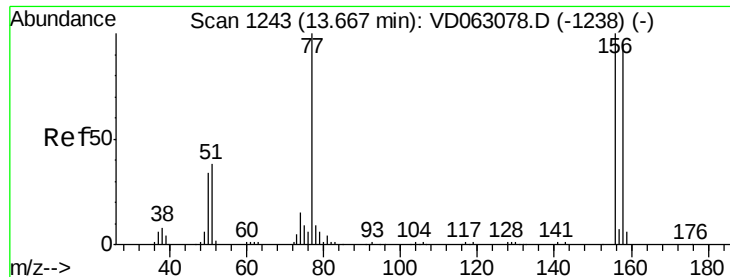
77 31.5 16.3 48.8



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 53.401 ug/l

RT: 13.67 min Scan# 1243

Delta R.T. 0.00 min

Lab File: VD063081.D

Acq: 15 Jul 2019 15:32

Instrument :

MSVOA_D

ClientSampleId :

ICVVD071519

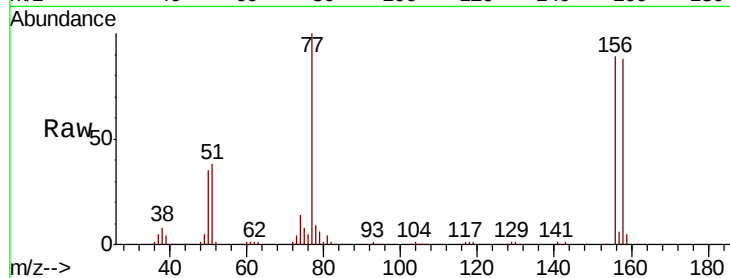
Tot Ion:156 Resp: 513520

Ion Ratio Lower Upper

156 100

77 112.6 50.2 150.7

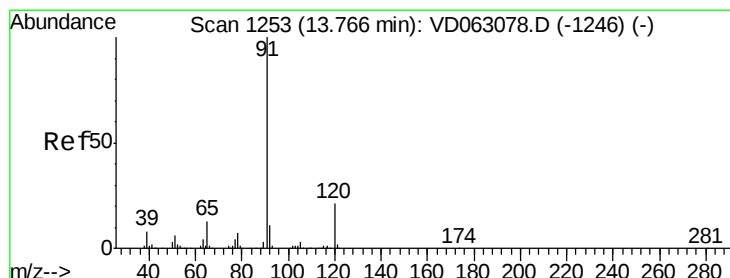
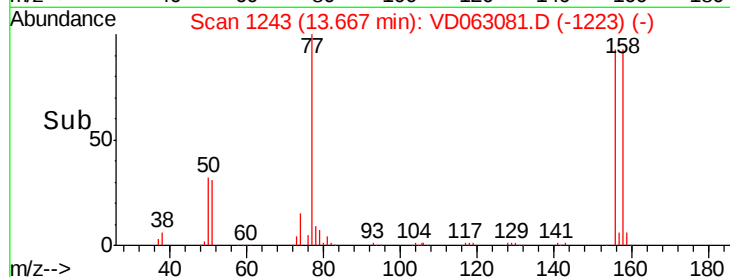
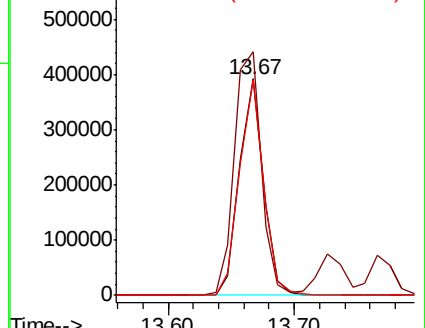
158 99.5 47.6 142.9



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 55.253 ug/l

RT: 13.77 min Scan# 1253

Delta R.T. 0.00 min

Lab File: VD063081.D

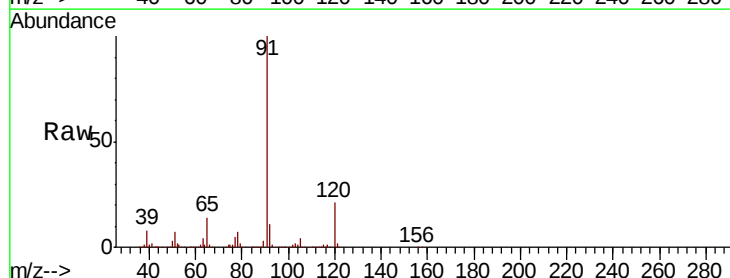
Acq: 15 Jul 2019 15:32

Tgt Ion: 91 Resp: 2156127

Ion Ratio Lower Upper

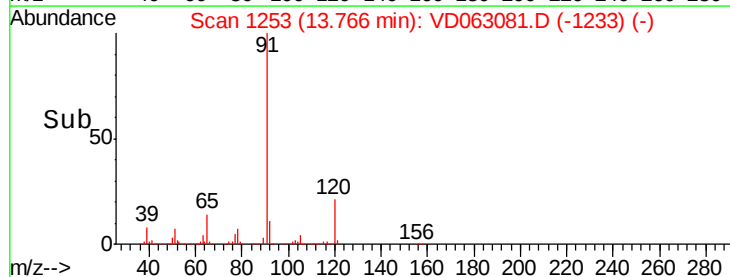
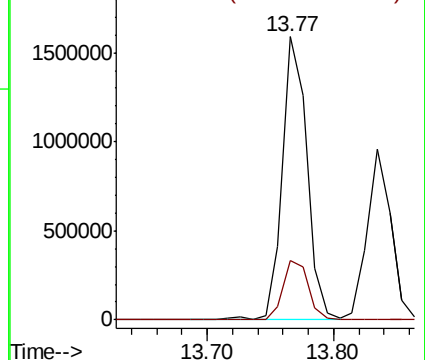
91 100

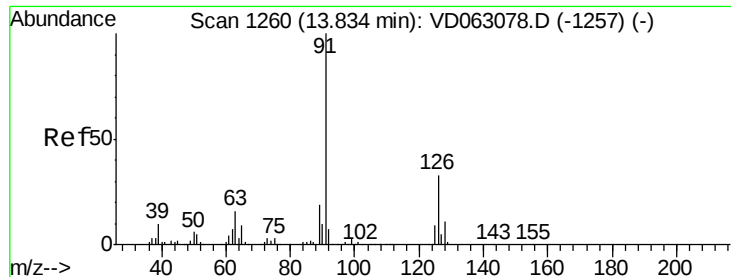
120 20.9 10.5 31.6



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 52.827 ug/l

RT: 13.83 min Scan# 1260

Delta R.T. 0.00 min

Lab File: VD063081.D

Acq: 15 Jul 2019 15:32

Instrument :

MSVOA_D

ClientSampleId :

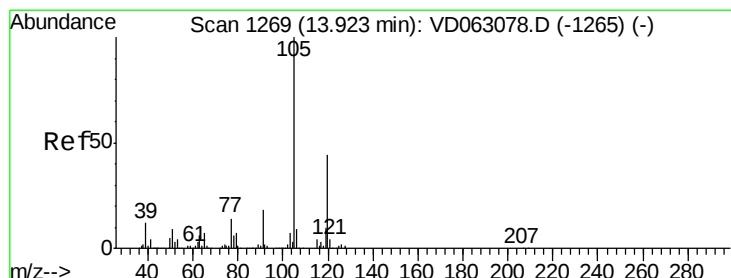
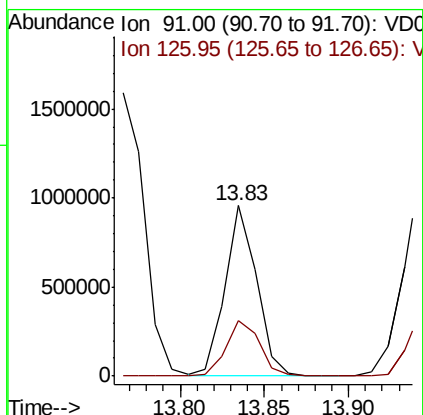
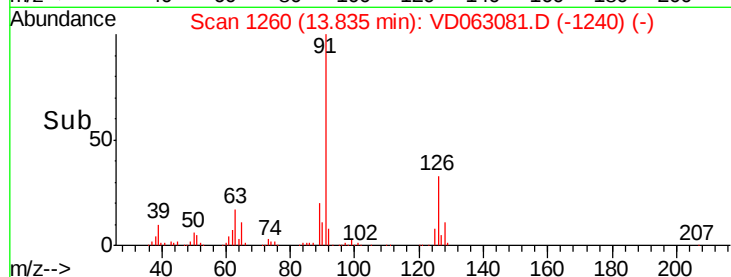
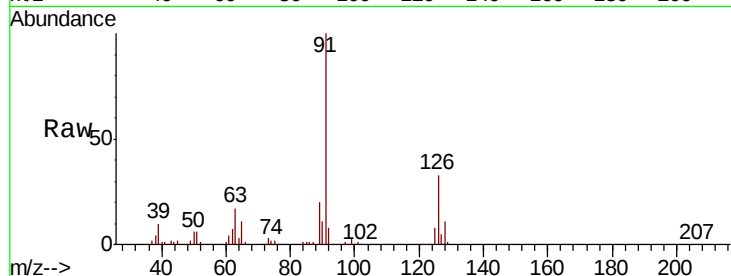
ICVVD071519

Tot Ion: 91 Resp: 1246421

Ion Ratio Lower Upper

91 100

126 32.5 16.4 49.2



#80

1,3,5-Trimethylbenzene

Concen: 55.091 ug/l

RT: 13.93 min Scan# 1270

Delta R.T. 0.01 min

Lab File: VD063081.D

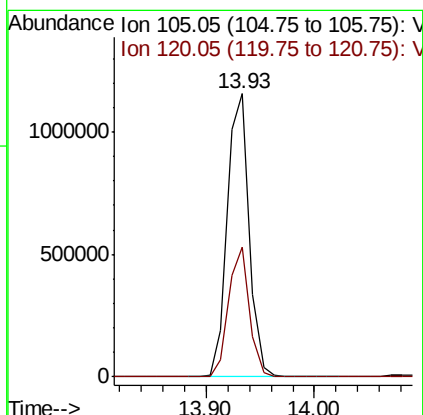
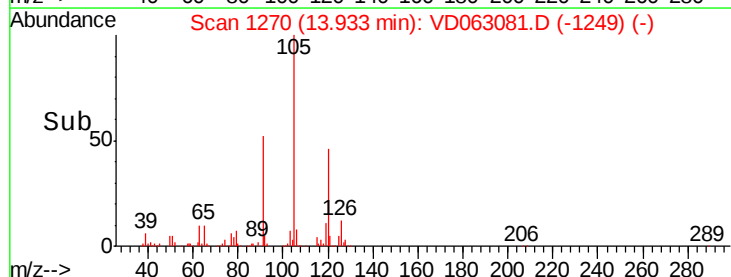
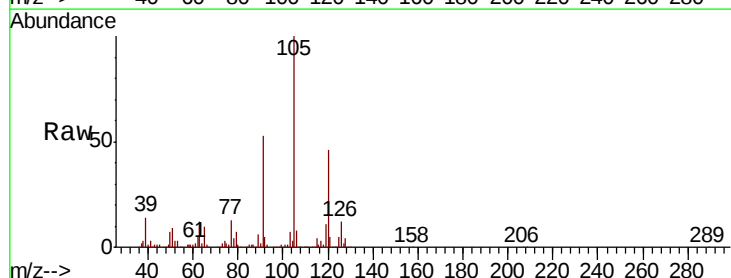
Acq: 15 Jul 2019 15:32

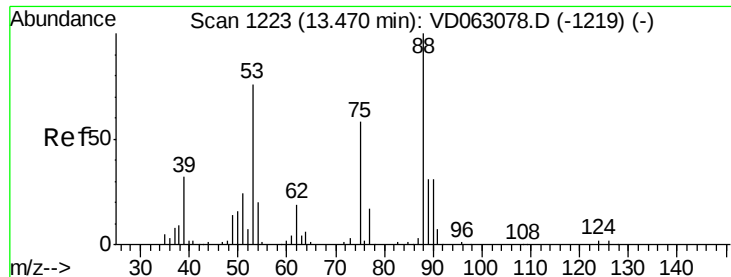
Tgt Ion:105 Resp: 1628179

Ion Ratio Lower Upper

105 100

120 45.8 21.8 65.4





#81

trans-1,4-Dichloro-2-butene

Concen: 49.928 ug/l

RT: 13.47 min Scan# 1223

Delta R.T. 0.00 min

Lab File: VD063081.D

Acq: 15 Jul 2019 15:32

Instrument :

MSVOA_D

ClientSampleId :

ICVVD071519

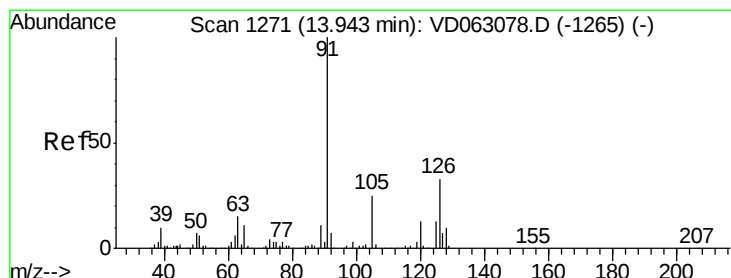
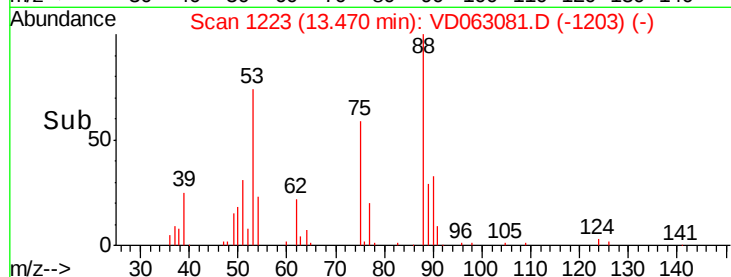
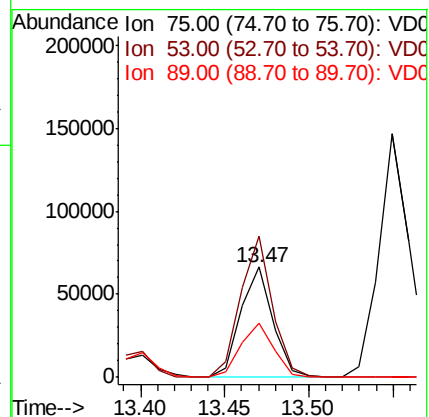
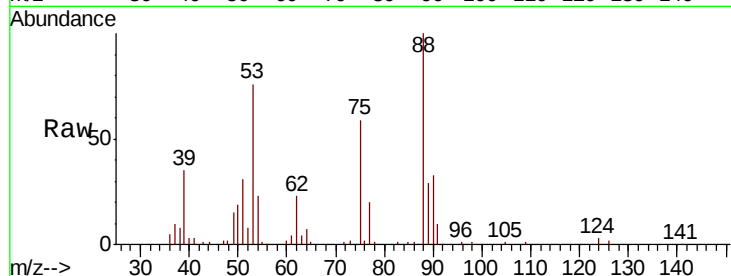
Tot Ion: 75 Resp: 88808

Ion Ratio Lower Upper

75 100

53 128.1 104.4 156.6

89 48.6 43.1 64.7



#82

4-Chlorotoluene

Concen: 55.622 ug/l

RT: 13.94 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VD063081.D

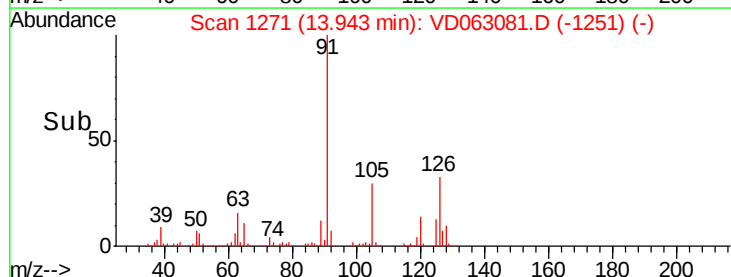
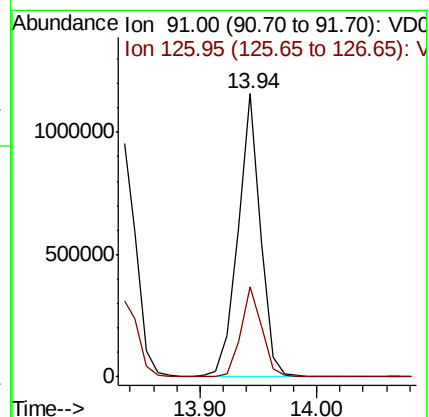
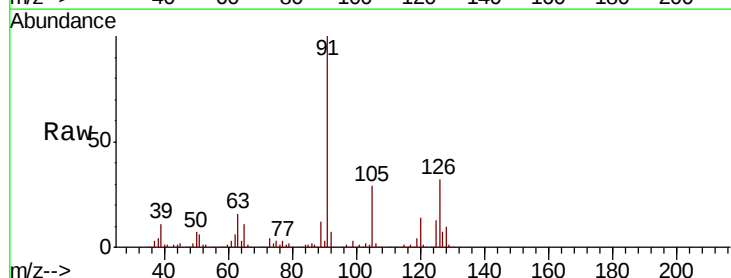
Acq: 15 Jul 2019 15:32

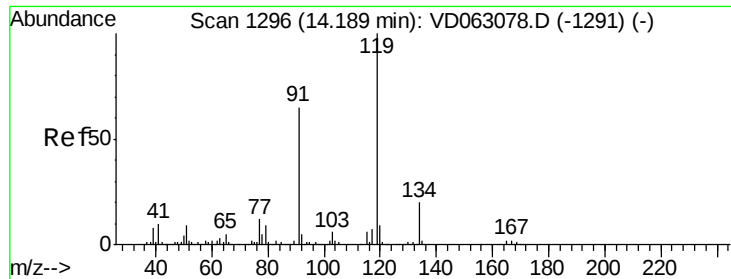
Tgt Ion: 91 Resp: 1532495

Ion Ratio Lower Upper

91 100

126 32.0 16.7 50.1





#83

tert-Butylbenzene

Concen: 52.471 ug/l

RT: 14.19 min Scan# 1296

Delta R.T. 0.00 min

Lab File: VD063081.D

Acq: 15 Jul 2019 15:32

Instrument :

MSVOA_D

ClientSampleId :

ICVVD071519

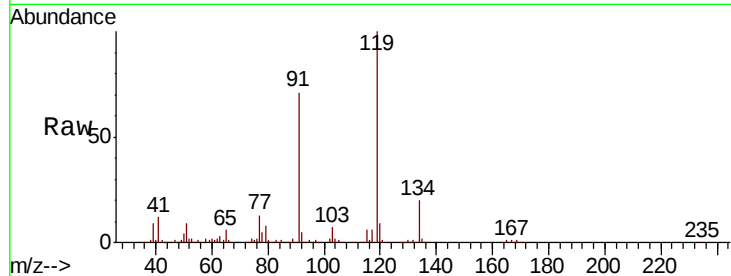
Tot Ion:119 Resp: 1753442

Ion Ratio Lower Upper

119 100

91 71.3 32.4 97.2

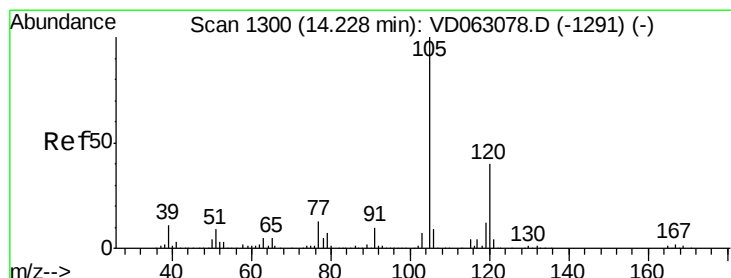
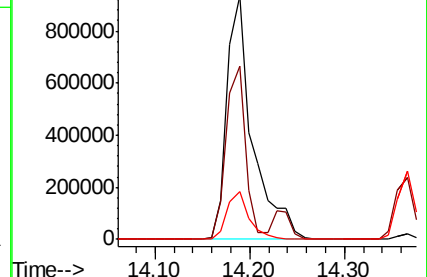
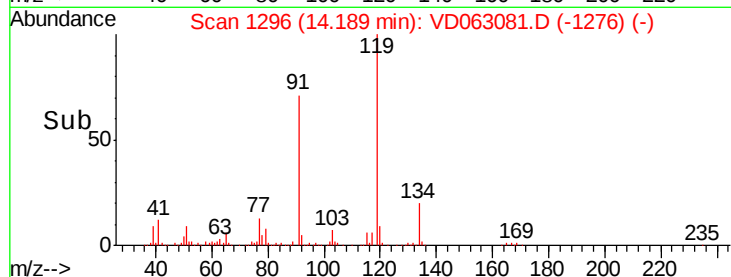
134 19.6 10.2 30.6



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 51.874 ug/l

RT: 14.24 min Scan# 1301

Delta R.T. 0.01 min

Lab File: VD063081.D

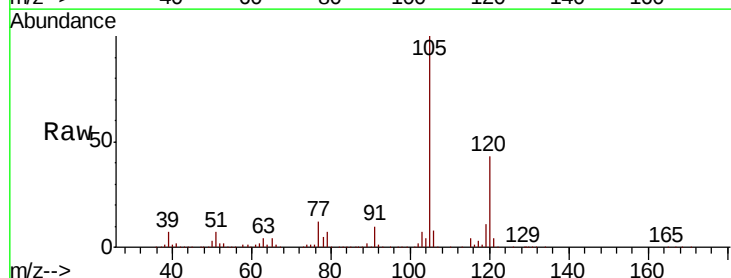
Acq: 15 Jul 2019 15:32

Tgt Ion:105 Resp: 1528429

Ion Ratio Lower Upper

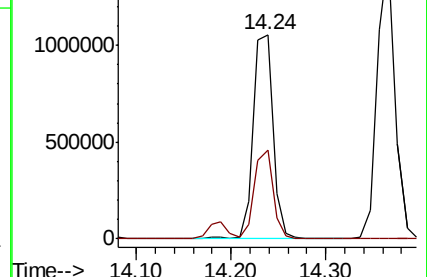
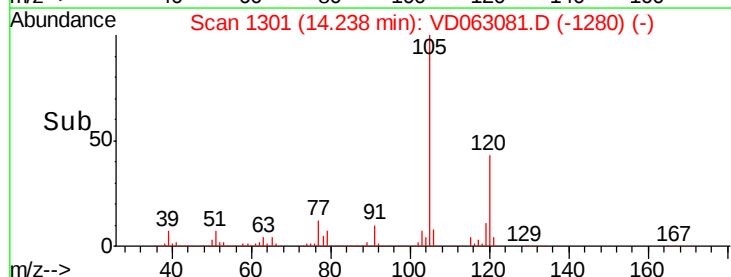
105 100

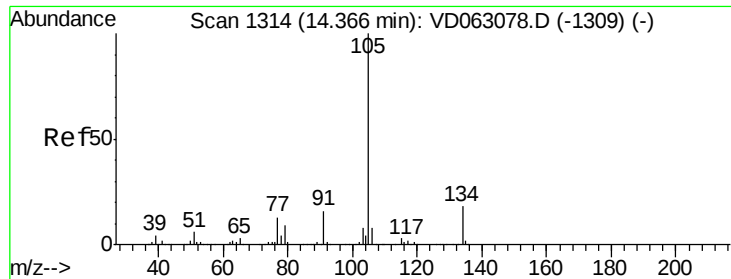
120 43.3 20.2 60.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

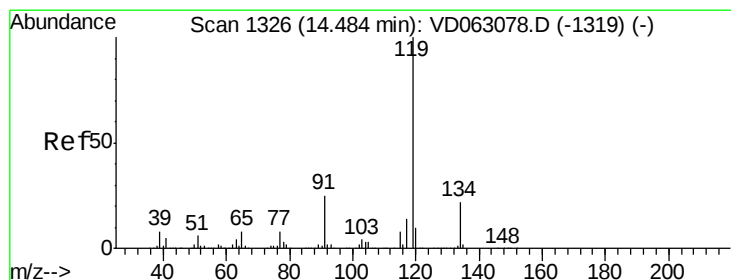
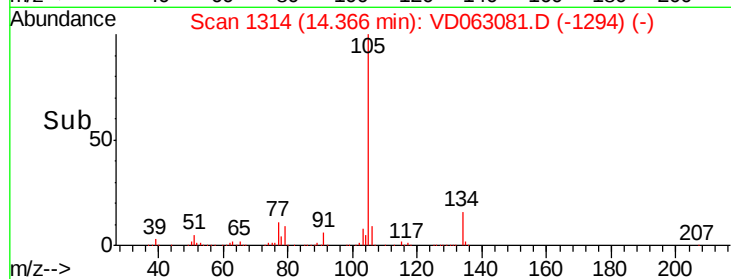
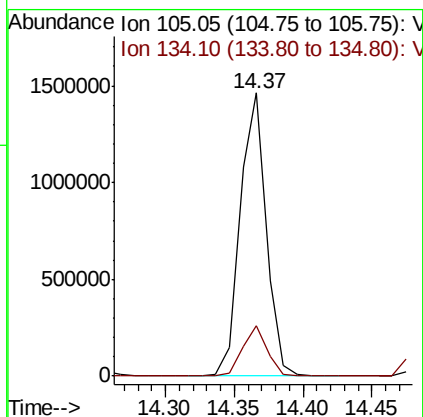
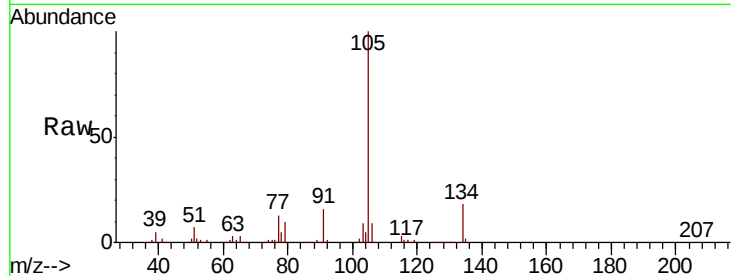




#85
 sec-Butylbenzene
 Concen: 54.092 ug/l
 RT: 14.37 min Scan# 1314
 Delta R.T. 0.00 min
 Lab File: VD063081.D
 Acq: 15 Jul 2019 15:32

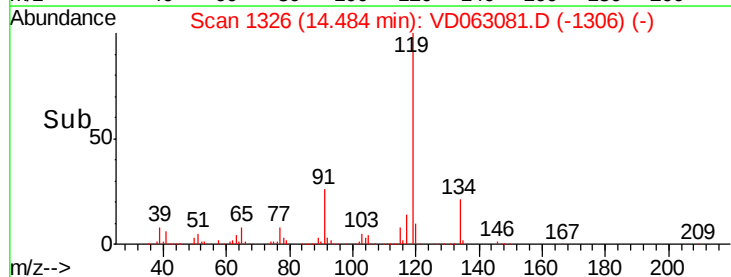
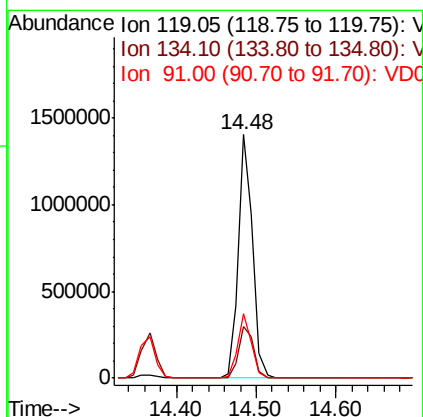
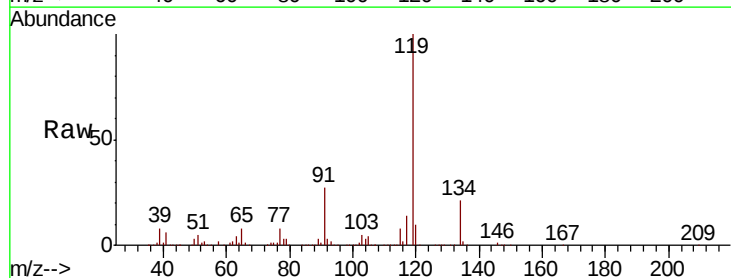
Instrument :
 MSVOA_D
 ClientSampleId :
 ICVVD071519

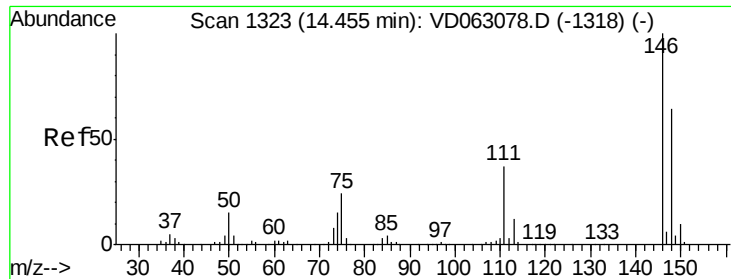
Tot Ion:105 Resp: 1920542
 Ion Ratio Lower Upper
 105 100
 134 17.9 8.9 26.8



#86
 p-Isopropyltoluene
 Concen: 53.119 ug/l
 RT: 14.48 min Scan# 1326
 Delta R.T. 0.00 min
 Lab File: VD063081.D
 Acq: 15 Jul 2019 15:32

Tgt Ion:119 Resp: 1759412
 Ion Ratio Lower Upper
 119 100
 134 21.2 10.8 32.4
 91 26.6 12.5 37.5

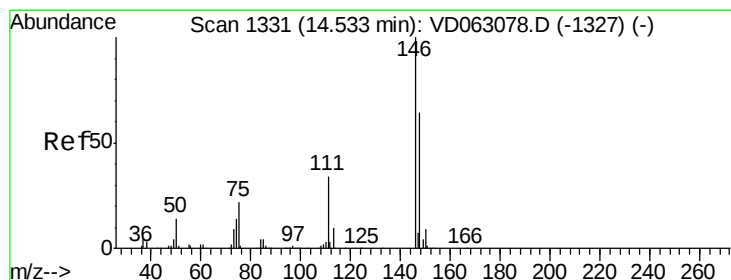
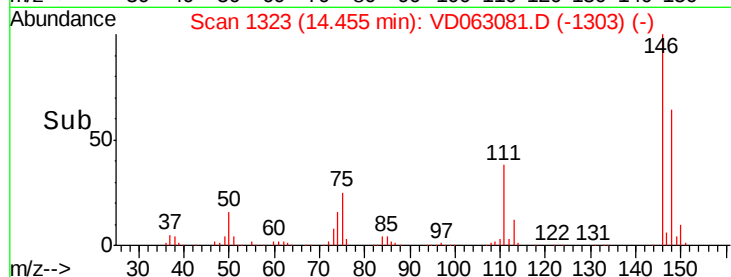
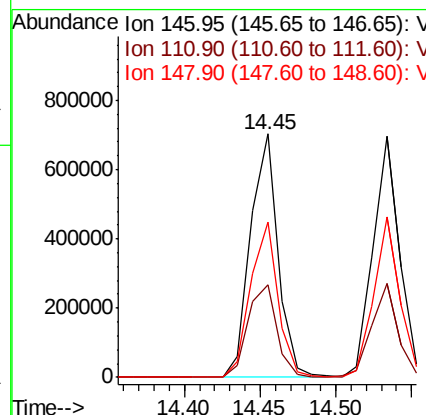
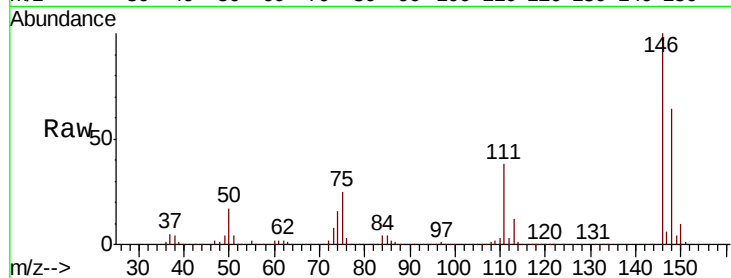




#87
 1,3-Dichlorobenzene
 Concen: 52.045 ug/l
 RT: 14.45 min Scan# 1323
 Delta R.T. 0.00 min
 Lab File: VD063081.D
 Acq: 15 Jul 2019 15:32

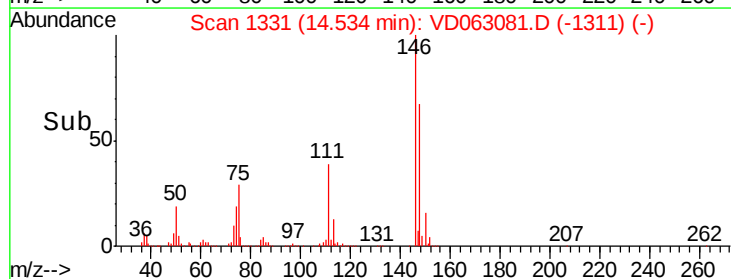
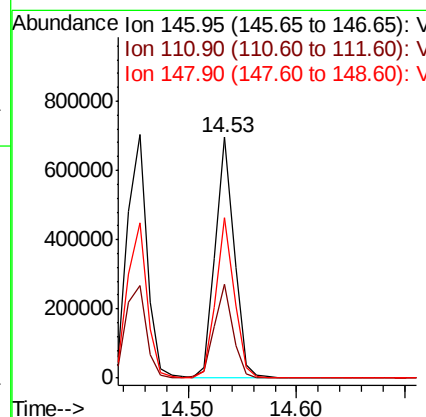
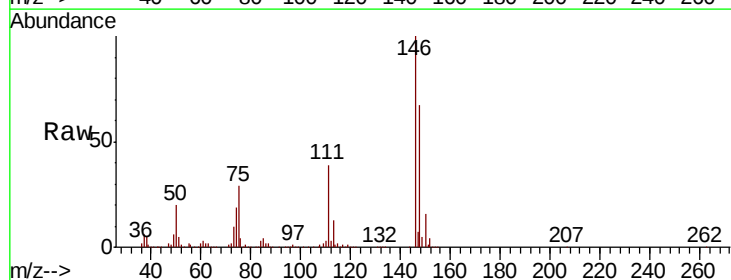
Instrument :
 MSVOA_D
 ClientSampleId :
 ICVVD071519

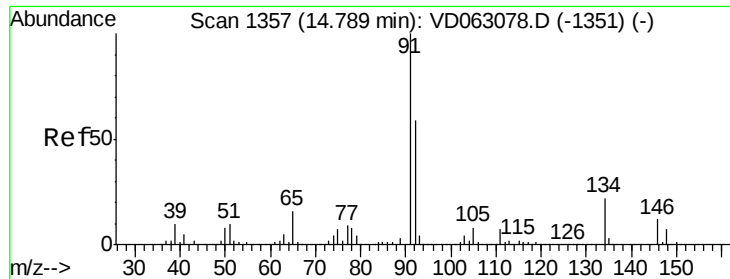
Tot Ion:146 Resp: 893779
 Ion Ratio Lower Upper
 146 100
 111 38.1 18.6 55.6
 148 63.9 32.0 96.0



#88
 1,4-Dichlorobenzene
 Concen: 51.934 ug/l
 RT: 14.53 min Scan# 1331
 Delta R.T. 0.00 min
 Lab File: VD063081.D
 Acq: 15 Jul 2019 15:32

Tgt Ion:146 Resp: 855026
 Ion Ratio Lower Upper
 146 100
 111 39.1 17.0 51.0
 148 66.6 32.0 96.2





#89

n-Butylbenzene

Concen: 52.906 ug/l

RT: 14.79 min Scan# 1357

Delta R.T. 0.00 min

Lab File: VD063081.D

Acq: 15 Jul 2019 15:32

Instrument :

MSVOA_D

ClientSampleId :

ICVVD071519

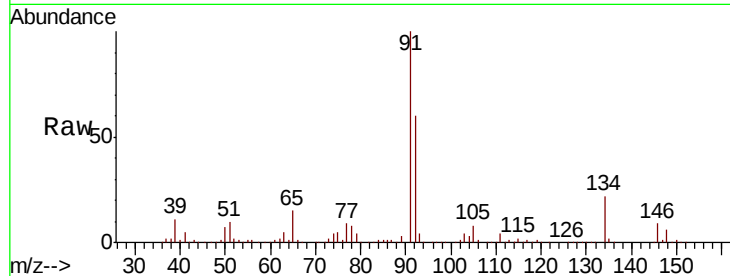
Tot Ion: 91 Resp: 1615169

Ion Ratio Lower Upper

91 100

92 60.0 29.4 88.3

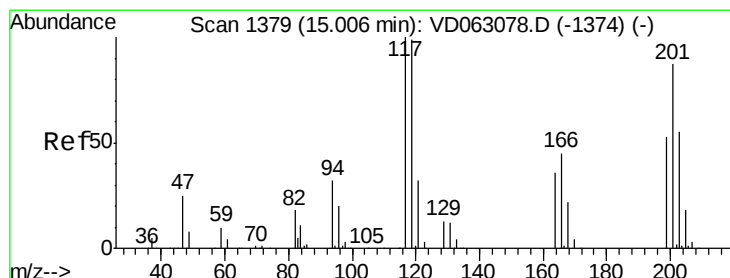
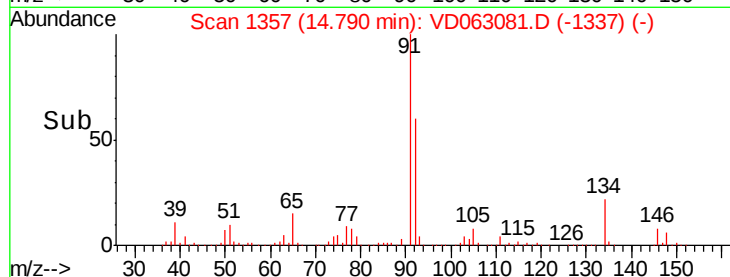
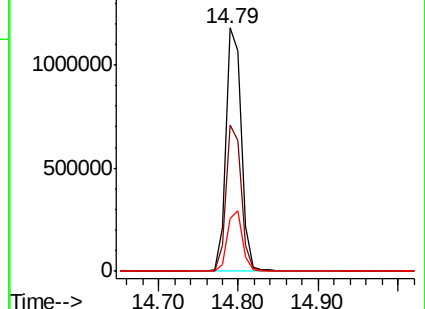
134 21.5 11.3 33.8



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: 52.385 ug/l

RT: 15.01 min Scan# 1379

Delta R.T. 0.00 min

Lab File: VD063081.D

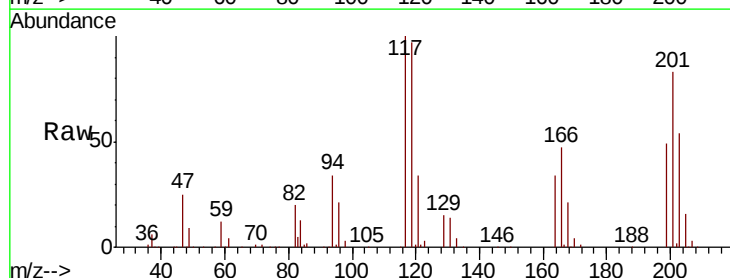
Acq: 15 Jul 2019 15:32

Tgt Ion: 117 Resp: 463838

Ion Ratio Lower Upper

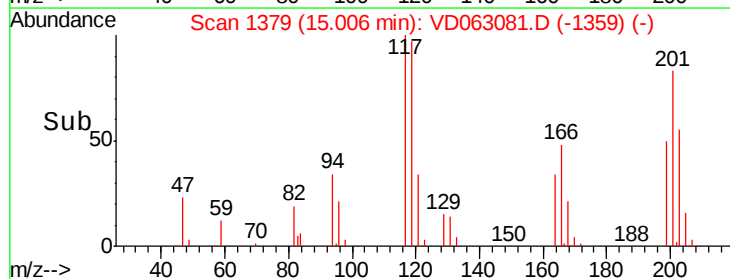
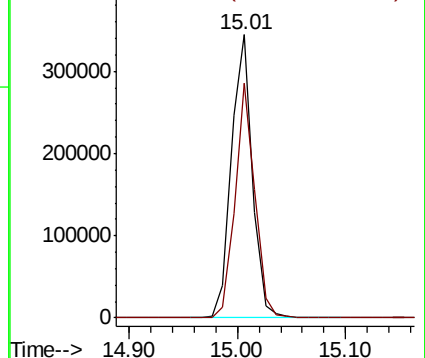
117 100

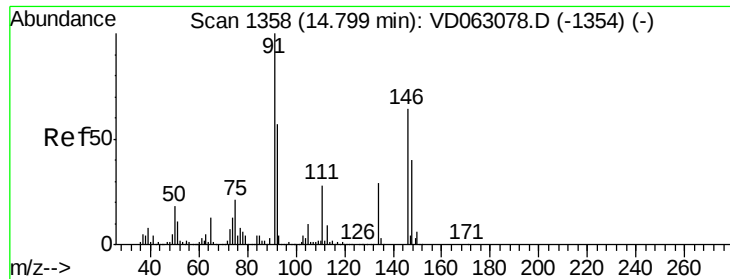
201 82.8 43.4 130.1



Abundance Ion 116.85 (116.55 to 117.55): VDC

Ion 200.75 (200.45 to 201.45): VDC





#91

1,2-Dichlorobenzene

Concen: 51.382 ug/l

RT: 14.81 min Scan# 1359

Delta R.T. 0.01 min

Lab File: VD063081.D

Acq: 15 Jul 2019 15:32

Instrument :

MSVOA_D

ClientSampleId :

ICVVD071519

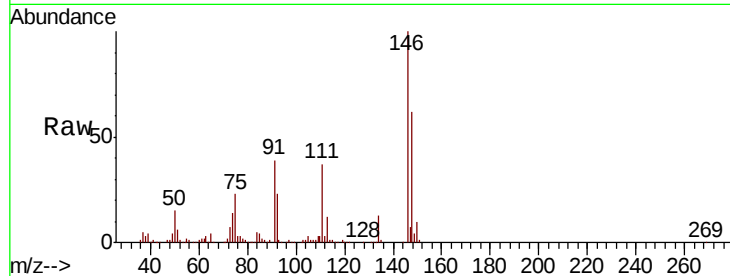
Tot Ion:146 Resp: 785743

Ion Ratio Lower Upper

146 100

111 36.7 21.9 65.5

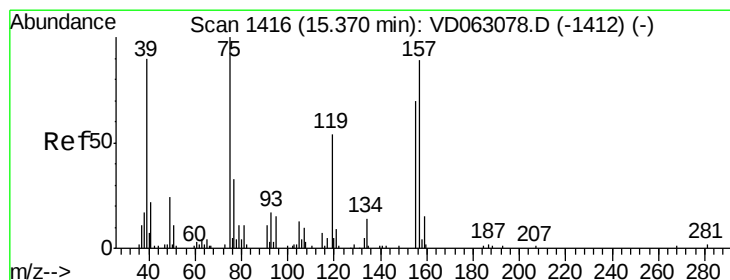
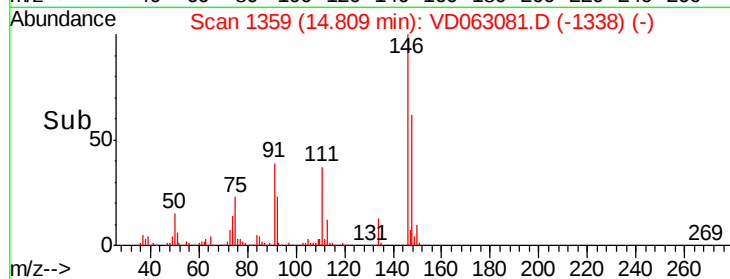
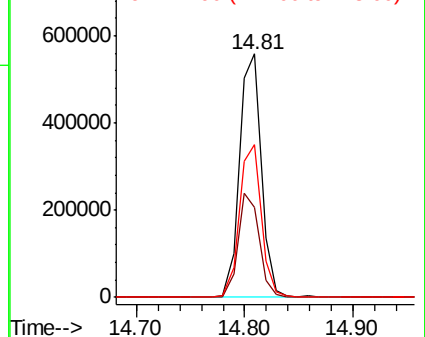
148 62.5 31.5 94.5



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: 50.077 ug/l

RT: 15.38 min Scan# 1417

Delta R.T. 0.01 min

Lab File: VD063081.D

Acq: 15 Jul 2019 15:32

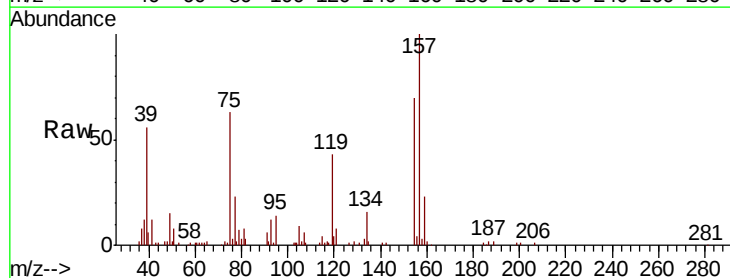
Tgt Ion: 75 Resp: 59221

Ion Ratio Lower Upper

75 100

155 111.8 34.8 104.3#

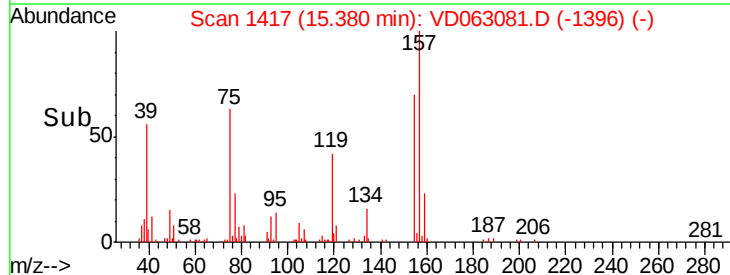
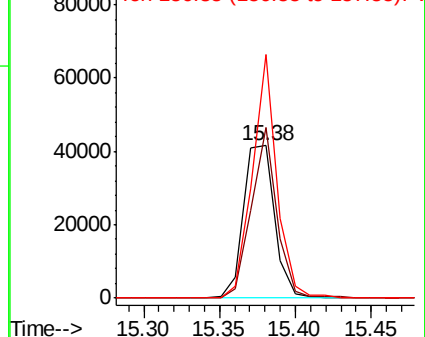
157 159.8 44.7 134.1#

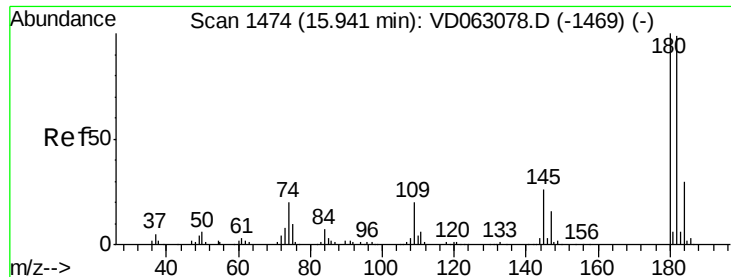


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V

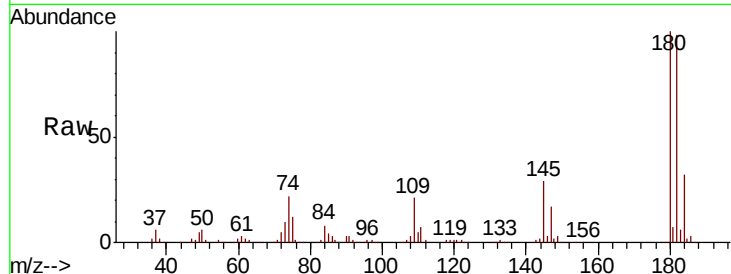




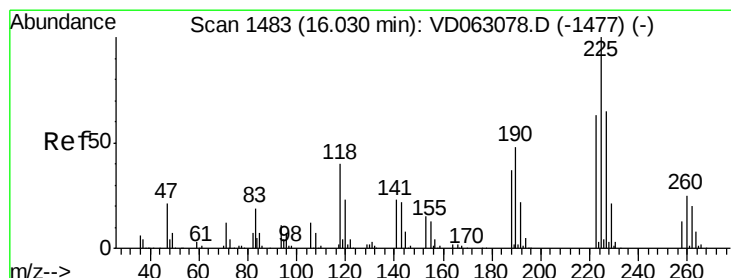
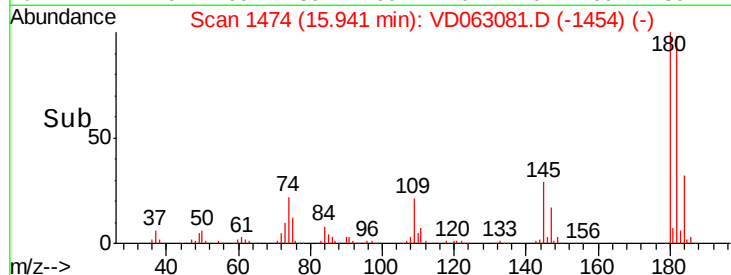
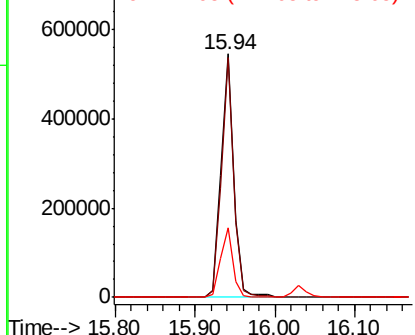
#93
 1,2,4-Trichlorobenzene
 Concen: 54.264 ug/l
 RT: 15.94 min Scan# 1474
 Delta R.T. 0.00 min
 Lab File: VD063081.D
 Acq: 15 Jul 2019 15:32

Instrument :
 MSVOA_D
 ClientSampleId :
 ICVVD071519

Tot Ion:180 Resp: 623425
 Ion Ratio Lower Upper
 180 100
 182 98.5 49.5 148.3
 145 28.5 12.8 38.4

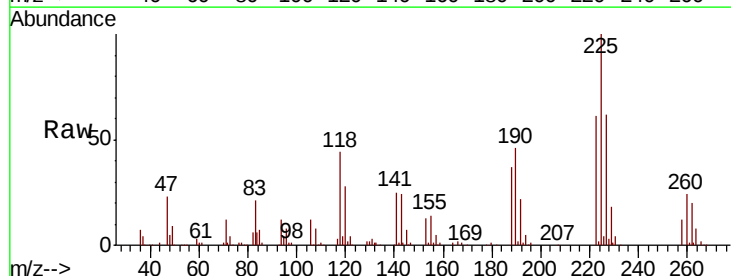


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

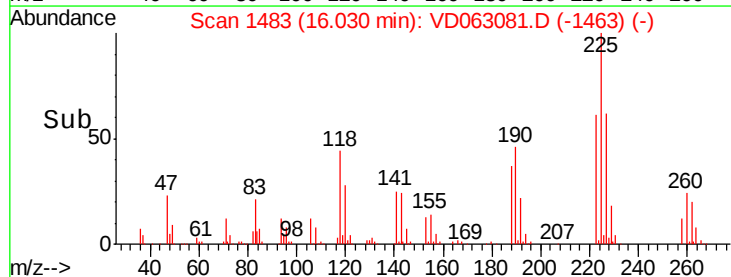
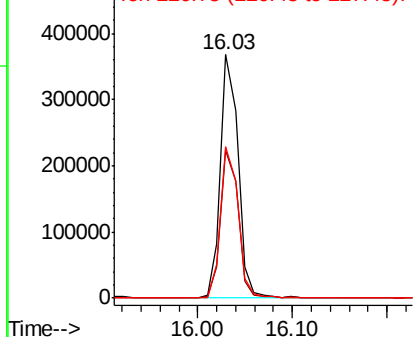


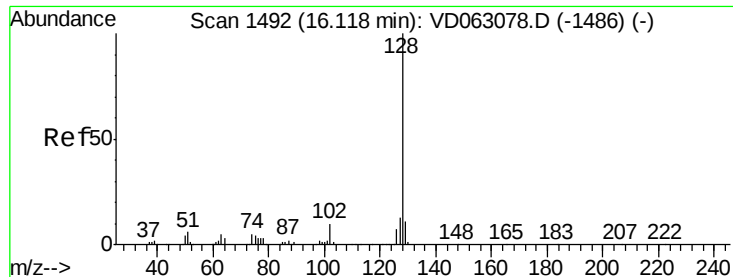
#94
 Hexachlorobutadiene
 Concen: 56.325 ug/l
 RT: 16.03 min Scan# 1483
 Delta R.T. 0.00 min
 Lab File: VD063081.D
 Acq: 15 Jul 2019 15:32

Tgt Ion:225 Resp: 476972
 Ion Ratio Lower Upper
 225 100
 223 60.6 31.4 94.2
 227 62.0 32.6 97.8



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

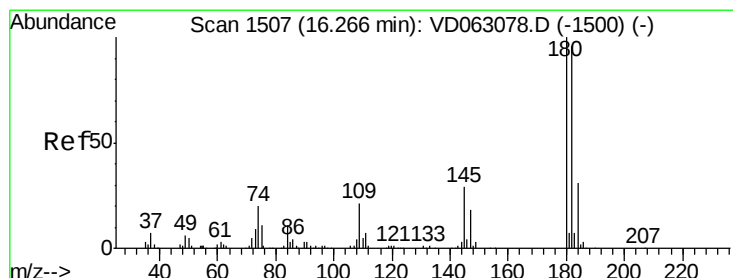
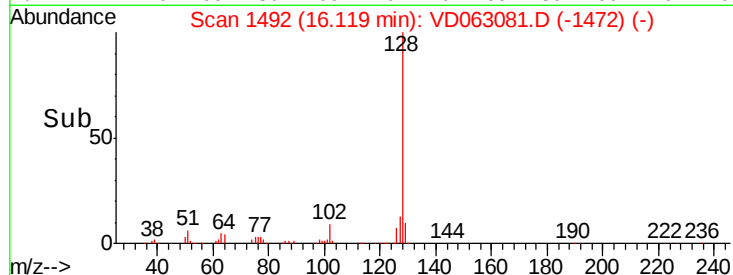
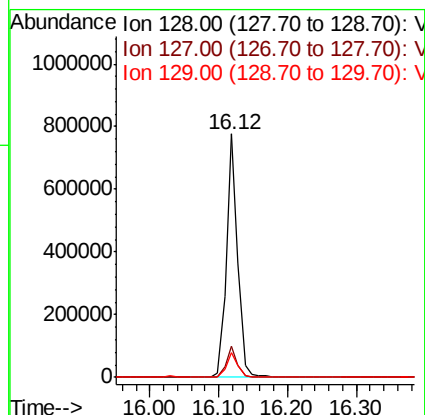
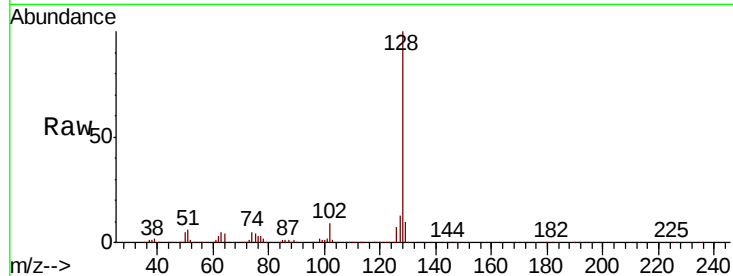




#95
Naphthalene
Concen: 52.297 ug/l
RT: 16.12 min Scan# 1492
Delta R.T. 0.00 min
Lab File: VD063081.D
Acq: 15 Jul 2019 15:32

Instrument :
MSVOA_D
ClientSampleId :
ICVVD071519

Tot Ion:128 Resp: 878882
Ion Ratio Lower Upper
128 100
127 12.7 10.7 16.1
129 10.1 8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 52.871 ug/l
RT: 16.27 min Scan# 1507
Delta R.T. 0.00 min
Lab File: VD063081.D
Acq: 15 Jul 2019 15:32

Tgt Ion:180 Resp: 488637
Ion Ratio Lower Upper
180 100
182 96.2 47.9 143.6
145 30.5 14.4 43.4

