

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD053019\
 Data File : VD062554.D
 Acq On : 30 May 2019 15:27
 Operator : VA/AP
 Sample : VSTDIC020
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Quant Time: May 31 01:15:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D053019S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 31 01:07:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	889452	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.23	114	1212266	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	952298	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.53	152	530220	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.47	65	194573	18.64	ug/l	0.00
Spiked Amount			Recovery	=	37.28%	
35) Dibromofluoromethane	6.94	113	207117	18.49	ug/l	0.00
Spiked Amount			Recovery	=	36.98%	
50) Toluene-d8	10.41	98	463596	19.10	ug/l	0.00
Spiked Amount			Recovery	=	38.20%	
62) 4-Bromofluorobenzene	13.56	95	206931	19.01	ug/l	0.00
Spiked Amount			Recovery	=	38.02%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.57	85	216358	20.416	ug/l	93
3) Chloromethane	1.74	50	221284	18.310	ug/l	93
4) Vinyl Chloride	1.85	62	158206	19.423	ug/l	99
5) Bromomethane	2.15	94	51551	20.624	ug/l	91
6) Chloroethane	2.26	64	67493	17.377	ug/l #	87
7) Trichlorofluoromethane	2.53	101	333890	19.622	ug/l	95
8) Diethyl Ether	2.87	74	39763	18.187	ug/l	91
9) 1,1,2-Trichlorotrifluoroet	3.15	101	192435	19.118	ug/l	91
10) Methyl Iodide	3.31	142	263348	23.958	ug/l	99
11) Tert butyl alcohol	4.09	59	45412	94.626	ug/l #	88
12) 1,1-Dichloroethene	3.13	96	146634	20.497	ug/l	94
13) Acrolein	3.04	56	18544	89.271	ug/l	91
14) Allyl chloride	3.62	41	206906	18.473	ug/l	86
15) Acrylonitrile	4.20	53	106631	98.642	ug/l	95
16) Acetone	3.23	43	185461	86.140	ug/l	96
17) Carbon Disulfide	3.38	76	436737	19.211	ug/l	95
18) Methyl Acetate	3.65	43	66793	19.071	ug/l #	92
19) Methyl tert-butyl Ether	4.25	73	337299	19.357	ug/l	99
20) Methylene Chloride	3.82	84	153578	20.353	ug/l	91
21) trans-1,2-Dichloroethene	4.22	96	154959	19.105	ug/l	95
22) Diisopropyl ether	5.14	45	440396	19.533	ug/l	96
23) Vinyl Acetate	5.08	43	1323753	96.472	ug/l	97
24) 1,1-Dichloroethane	4.99	63	287769	19.537	ug/l #	96
25) 2-Butanone	6.08	43	178565	90.248	ug/l	98
26) 2,2-Dichloropropane	6.03	77	297723	18.616	ug/l	99
27) cis-1,2-Dichloroethene	6.04	96	156911	18.781	ug/l	95
28) Bromochloromethane	6.45	49	100076	20.485	ug/l	96
29) Tetrahydrofuran	6.48	42	85332	93.806	ug/l	96
30) Chloroform	6.68	83	343901	19.403	ug/l	95
31) Cyclohexane	6.97	56	183084	18.762	ug/l	97
32) 1,1,1-Trichloroethane	6.88	97	358674	19.817	ug/l	96
36) 1,1-Dichloropropene	7.16	75	228758	18.606	ug/l	94
37) Ethyl Acetate	6.19	43	97224	17.709	ug/l #	93
38) Carbon Tetrachloride	7.13	117	343785	18.513	ug/l	93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.88	83	188858	18.336	ug/l	96
40) Benzene	7.47	78	452748	18.747	ug/l	99
41) Methacrylonitrile	6.47	41	117306	19.062	ug/l #	89
42) 1,2-Dichloroethane	7.59	62	251101	18.623	ug/l	99
43) Isopropyl Acetate	9.25	43	122096	18.757	ug/l #	98
44) Trichloroethene	8.55	130	189355	19.588	ug/l	98
45) 1,2-Dichloropropane	8.95	63	117519	19.810	ug/l	99
46) Dibromomethane	9.08	93	97676	19.740	ug/l	96
47) Bromodichloromethane	9.39	83	266560	19.393	ug/l	98
48) Methyl methacrylate	9.13	41	80970	18.103	ug/l	93
49) 1,4-Dioxane	9.10	88	13676	376.642	ug/l #	82
51) 4-Methyl-2-Pentanone	10.32	43	426953	92.715	ug/l	97
52) Toluene	10.52	92	308249	18.761	ug/l	97
53) t-1,3-Dichloropropene	10.93	75	214416	18.247	ug/l	99
54) cis-1,3-Dichloropropene	10.05	75	229907	18.928	ug/l	95
55) 1,1,2-Trichloroethane	11.20	97	106225	19.443	ug/l	92
56) Ethyl methacrylate	11.05	69	111486	19.293	ug/l	96
57) 1,3-Dichloropropane	11.42	76	146241	17.672	ug/l	96
58) 2-Chloroethyl Vinyl ether	9.87	63	325560	108.697	ug/l	99
59) 2-Hexanone	11.55	43	290616	90.324	ug/l	97
60) Dibromochloromethane	11.69	129	204966	19.338	ug/l	97
61) 1,2-Dibromoethane	11.81	107	124476	19.253	ug/l	97
64) Tetrachloroethene	11.27	164	173610	20.144	ug/l	96
65) Chlorobenzene	12.41	112	372044	19.320	ug/l	100
66) 1,1,1,2-Tetrachloroethane	12.52	131	176987	19.667	ug/l	94
67) Ethyl Benzene	12.53	91	692326	19.954	ug/l	97
68) m/p-Xylenes	12.68	106	495465	42.048	ug/l	99
69) o-Xylene	13.05	106	230748	20.209	ug/l	85
70) Styrene	13.08	104	403808	20.920	ug/l	100
71) Bromoform	13.24	173	123057	19.641	ug/l	98
73) Isopropylbenzene	13.41	105	724260	20.544	ug/l	95
74) N-amyl acetate	13.27	43	176289	19.464	ug/l	97
75) 1,1,2,2-Tetrachloroethane	13.70	83	113151	19.585	ug/l	100
76) 1,2,3-Trichloropropane	13.74	75	126396	18.880	ug/l	98
77) Bromobenzene	13.68	156	201169	20.385	ug/l	93
78) n-propylbenzene	13.78	91	827098	20.133	ug/l	98
79) 2-Chlorotoluene	13.85	91	509679	21.191	ug/l	96
80) 1,3,5-Trimethylbenzene	13.94	105	637654	20.853	ug/l	98
81) trans-1,4-Dichloro-2-buten	13.48	75	33956	18.748	ug/l #	81
82) 4-Chlorotoluene	13.95	91	581173	20.094	ug/l	86
83) tert-Butylbenzene	14.19	119	667008	19.828	ug/l	100
84) 1,2,4-Trimethylbenzene	14.24	105	602854	19.719	ug/l	97
85) sec-Butylbenzene	14.37	105	740528	20.641	ug/l	97
86) p-Isopropyltoluene	14.50	119	705508	20.908	ug/l	97
87) 1,3-Dichlorobenzene	14.46	146	356295	20.683	ug/l	96
88) 1,4-Dichlorobenzene	14.55	146	329928	19.528	ug/l	96
89) n-Butylbenzene	14.81	91	623572	20.309	ug/l	99
90) Hexachloroethane	15.01	117	175938	19.511	ug/l	75
91) 1,2-Dichlorobenzene	14.82	146	295298	20.122	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	15.39	75	21333	18.198	ug/l	81

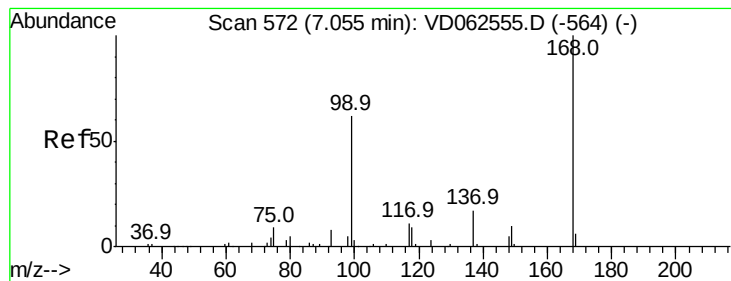
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD053019\
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.95	180	214472	18.925	ug/l	90
94) Hexachlorobutadiene	16.05	225	176481	21.230	ug/l	99
95) Naphthalene	16.13	128	292889	18.308	ug/l	99
96) 1,2,3-Trichlorobenzene	16.27	180	165561	19.375	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.00 min

Lab File: VD062554.D

Acq: 30 May 2019 15:27

Instrument :

MSVOA_D

ClientSampleId :

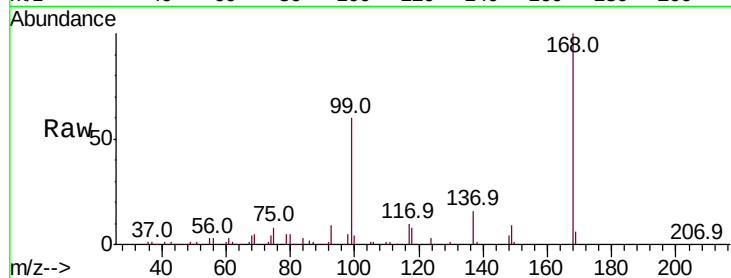
VSTDIC020

Tot Ion:168 Resp: 889452

Ion Ratio Lower Upper

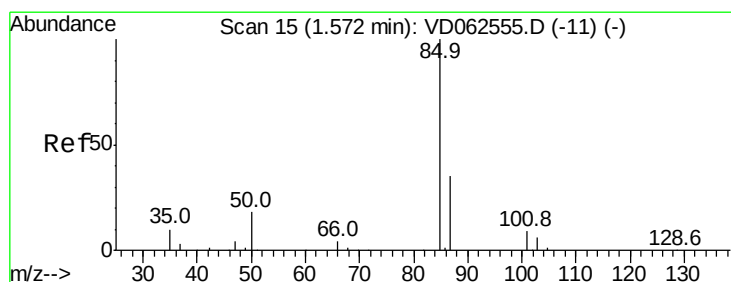
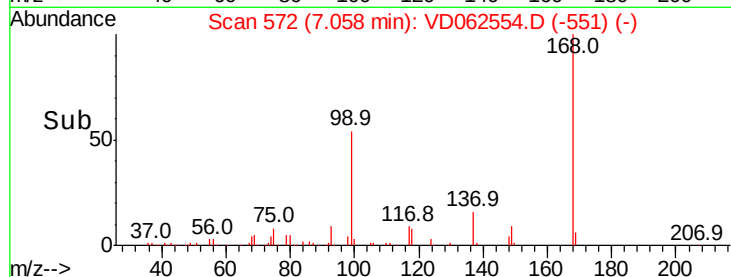
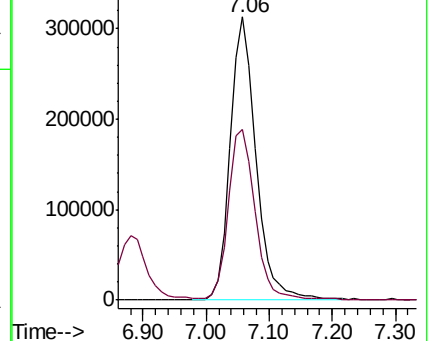
168 100

99 60.3 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 20.416 ug/l

RT: 1.57 min Scan# 15

Delta R.T. 0.00 min

Lab File: VD062554.D

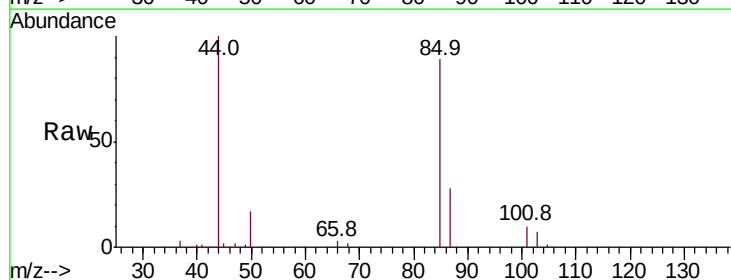
Acq: 30 May 2019 15:27

Tgt Ion: 85 Resp: 216358

Ion Ratio Lower Upper

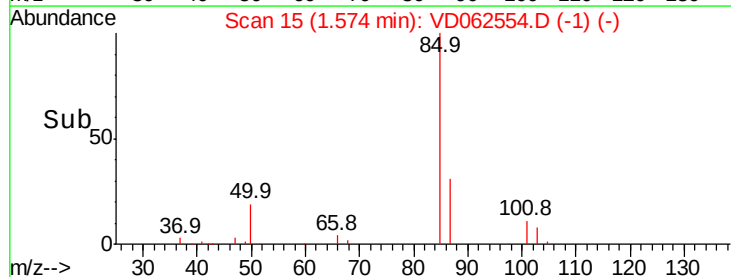
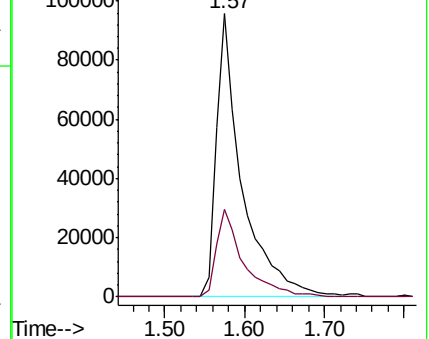
85 100

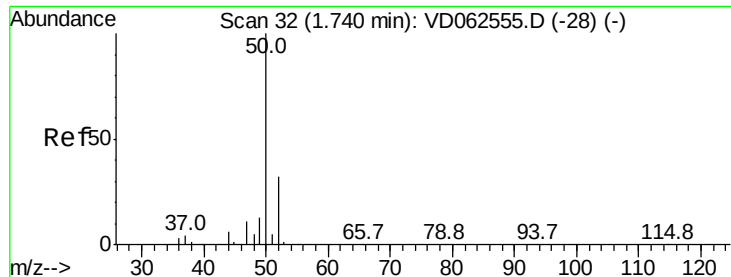
87 31.2 17.5 52.6



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 18.310 ug/l

RT: 1.74 min Scan# 32

Delta R.T. 0.00 min

Lab File: VD062554.D

Acq: 30 May 2019 15:27

Instrument :

MSVOA_D

ClientSampleId :

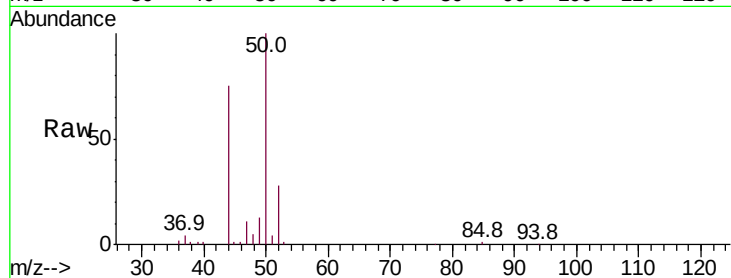
VSTDIC020

Tot Ion: 50 Resp: 221284

Ion Ratio Lower Upper

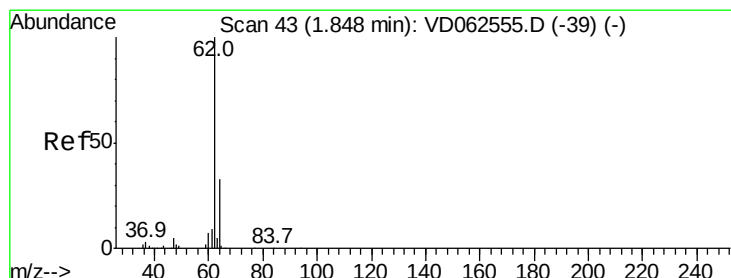
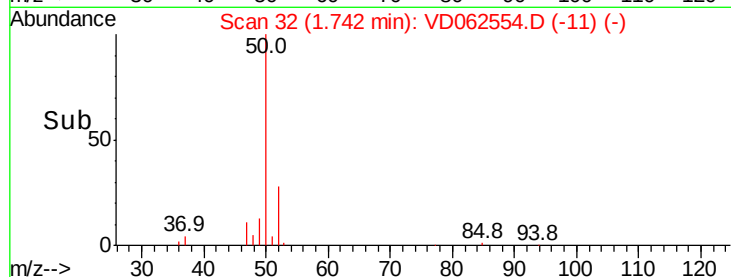
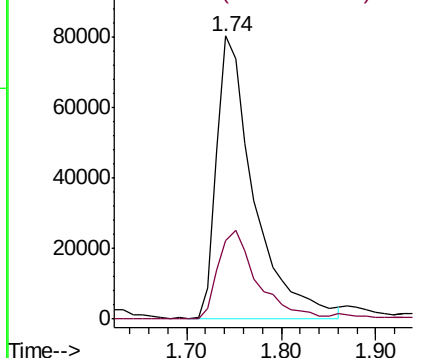
50 100

52 28.0 25.4 38.2



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 19.423 ug/l

RT: 1.85 min Scan# 43

Delta R.T. 0.00 min

Lab File: VD062554.D

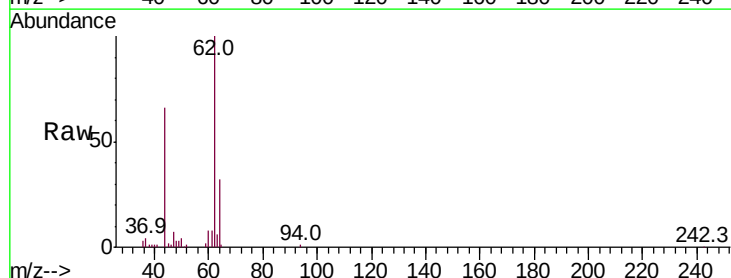
Acq: 30 May 2019 15:27

Tgt Ion: 62 Resp: 158206

Ion Ratio Lower Upper

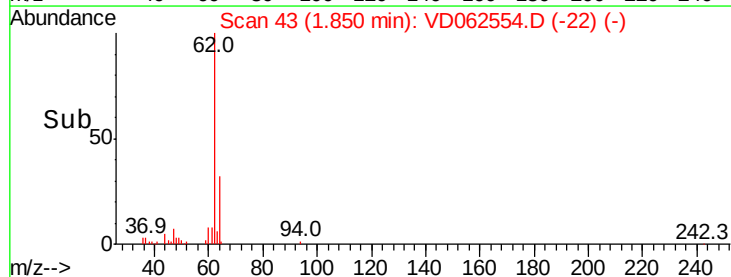
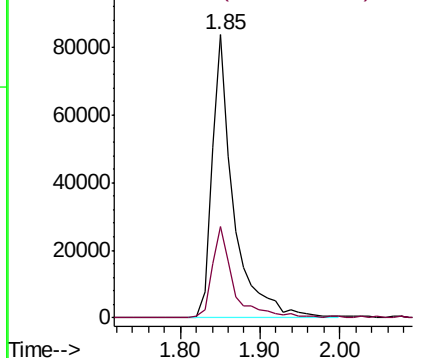
62 100

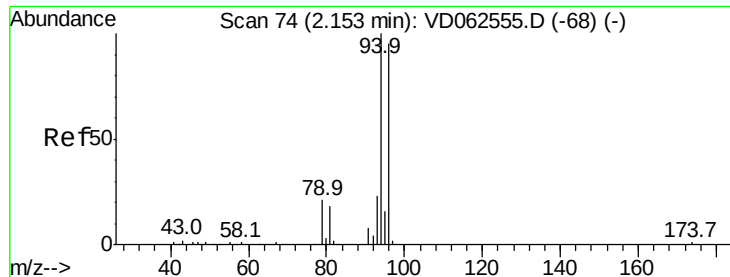
64 32.4 26.5 39.7



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 20.624 ug/l

RT: 2.15 min Scan# 73

Delta R.T. -0.01 min

Lab File: VD062554.D

Acq: 30 May 2019 15:27

Instrument :

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ClientSampleId :

VSTDIC020

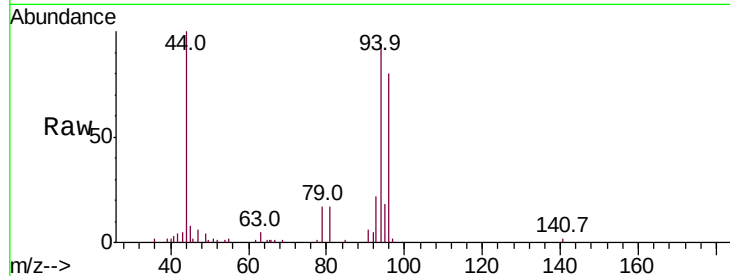
Tot Ion: 94 Resp: 51551

Ion Ratio Lower Upper

94 100

96 84.7 76.2 114.4

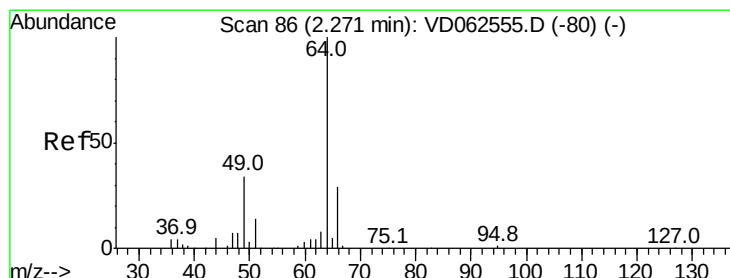
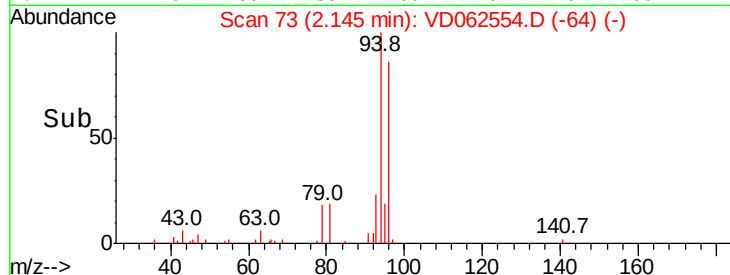
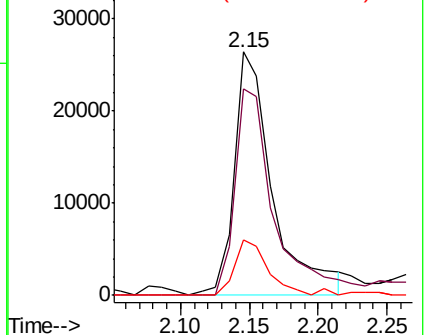
93 23.0 18.4 27.6



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: 17.377 ug/l

RT: 2.26 min Scan# 85

Delta R.T. -0.01 min

Lab File: VD062554.D

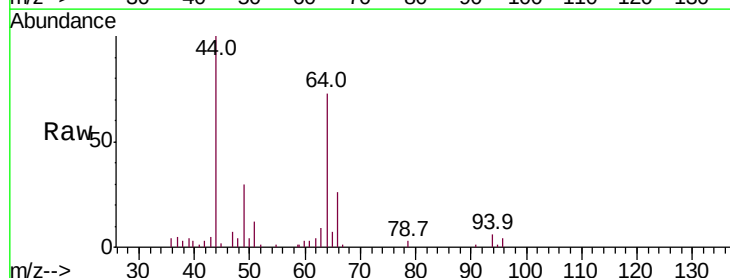
Acq: 30 May 2019 15:27

Tgt Ion: 64 Resp: 67493

Ion Ratio Lower Upper

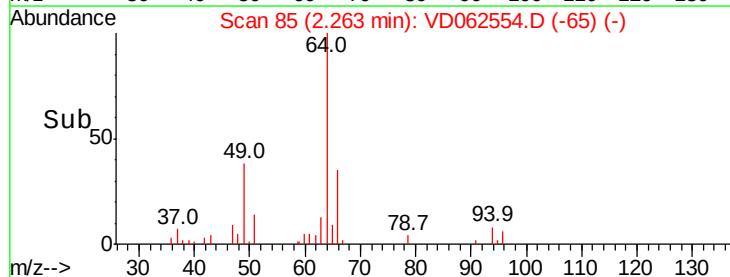
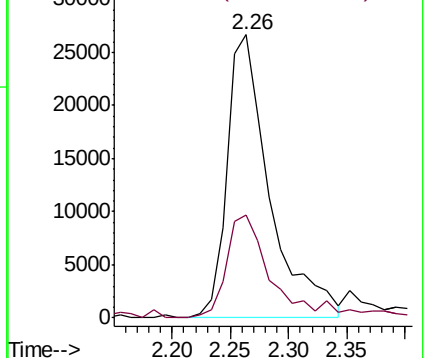
64 100

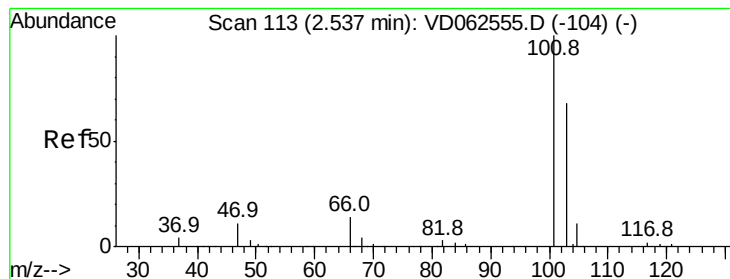
66 36.4 23.4 35.2#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



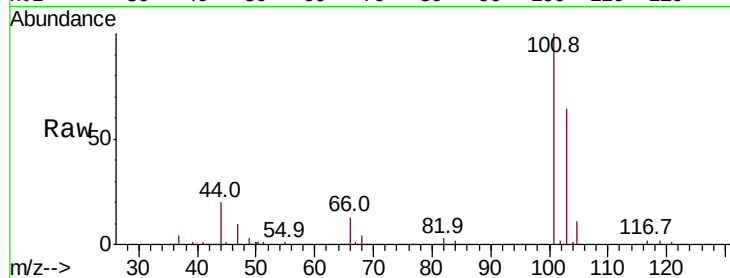


#7

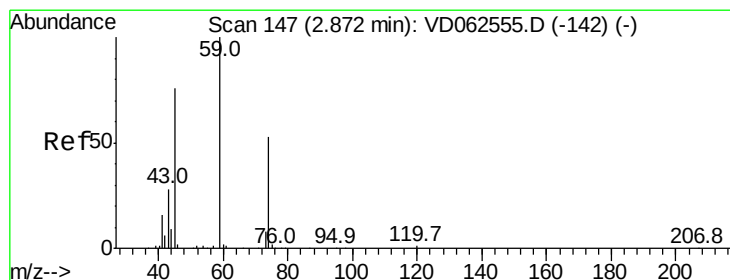
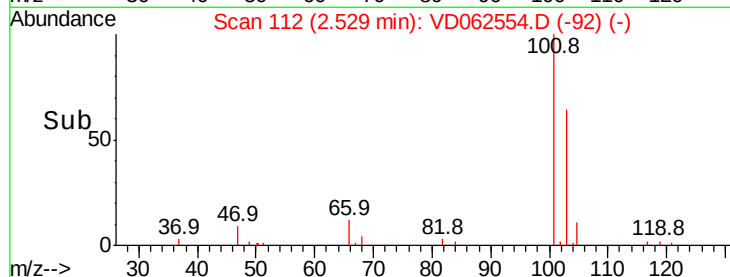
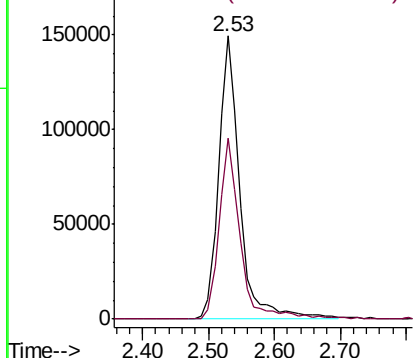
Trichlorofluoromethane
 Concen: 19.622 ug/l
 RT: 2.53 min Scan# 112
 Delta R.T. -0.01 min
 Lab File: VD062554.D
 Acq: 30 May 2019 15:27

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Tot Ion:101 Resp: 333890
 Ion Ratio Lower Upper
 101 100
 103 63.8 54.3 81.5



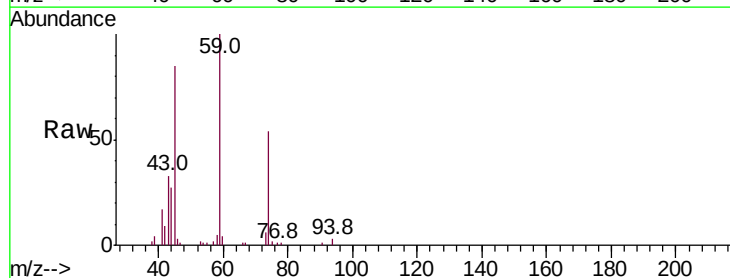
Abundance Ion 100.85 (100.55 to 101.55): V
 Ion 102.85 (102.55 to 103.55): V



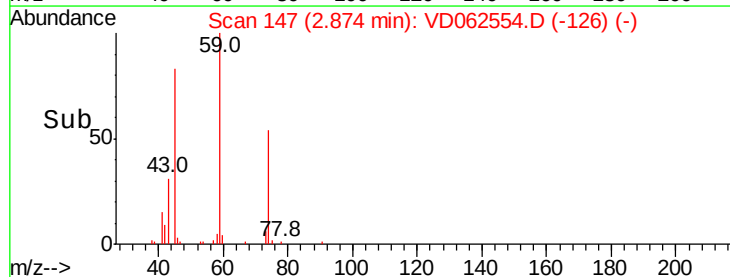
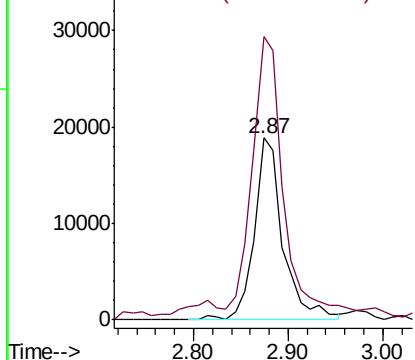
#8

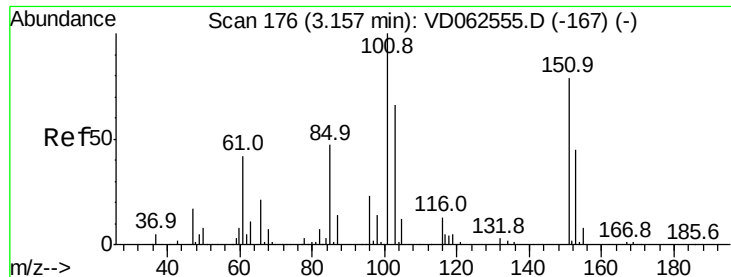
Diethyl Ether
 Concen: 18.187 ug/l
 RT: 2.87 min Scan# 147
 Delta R.T. 0.00 min
 Lab File: VD062554.D
 Acq: 30 May 2019 15:27

Tgt Ion: 74 Resp: 39763
 Ion Ratio Lower Upper
 74 100
 45 155.3 71.9 215.7



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





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.118 ug/l

RT: 3.15 min Scan# 175

Delta R.T. -0.01 min

Lab File: VD062554.D

Acq: 30 May 2019 15:27

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ClientSampleId :

VSTDIC020

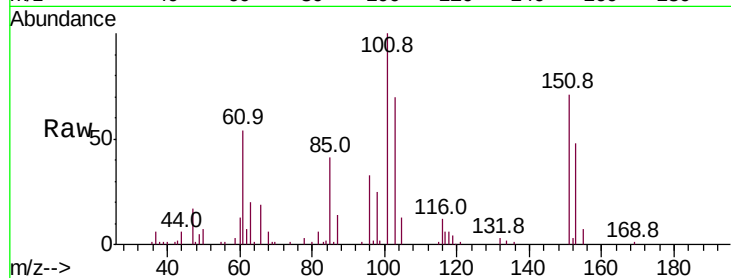
Tot Ion:101 Resp: 192435

Ion Ratio Lower Upper

101 100

85 41.0 37.6 56.4

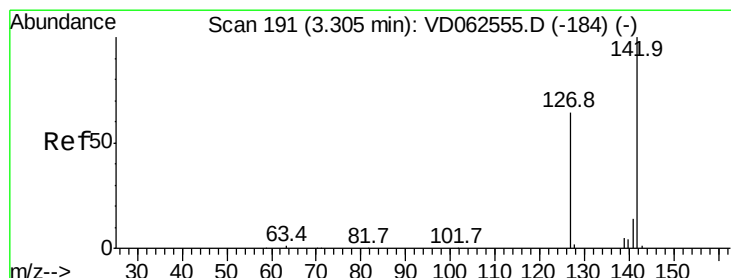
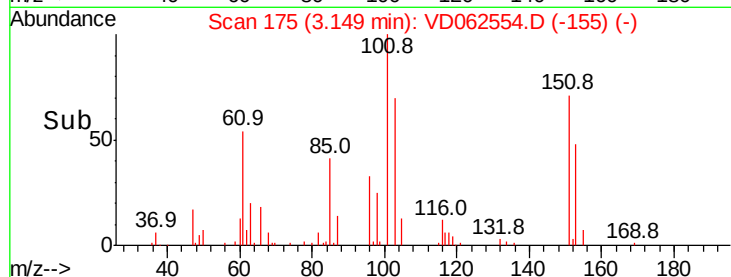
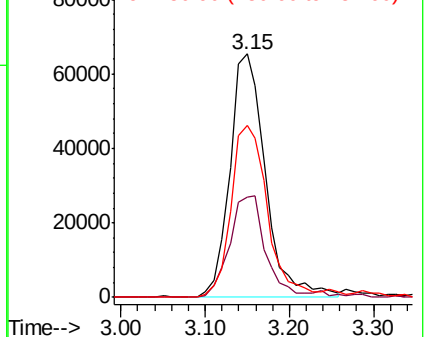
151 70.6 63.0 94.4



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: 23.958 ug/l

RT: 3.31 min Scan# 191

Delta R.T. 0.00 min

Lab File: VD062554.D

Acq: 30 May 2019 15:27

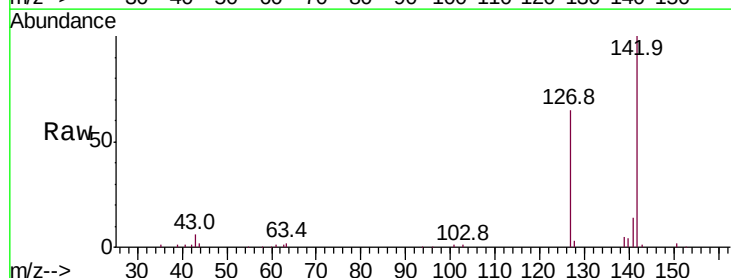
Tgt Ion:142 Resp: 263348

Ion Ratio Lower Upper

142 100

127 65.1 51.2 76.8

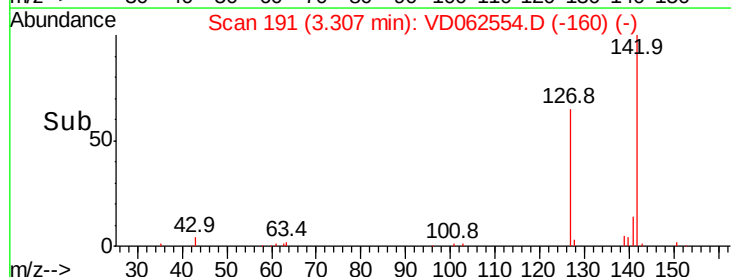
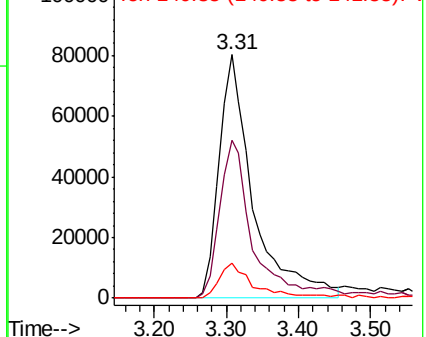
141 14.2 11.0 16.4

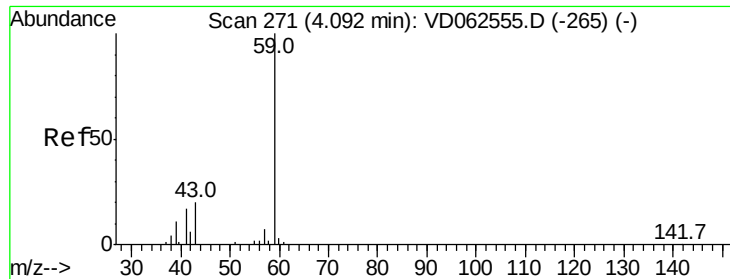


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



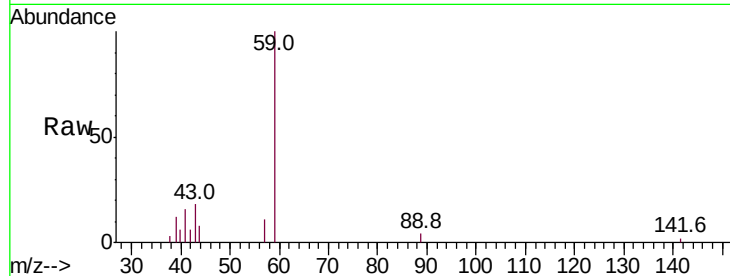


#11

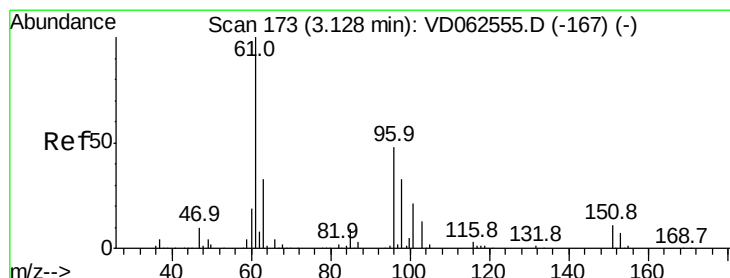
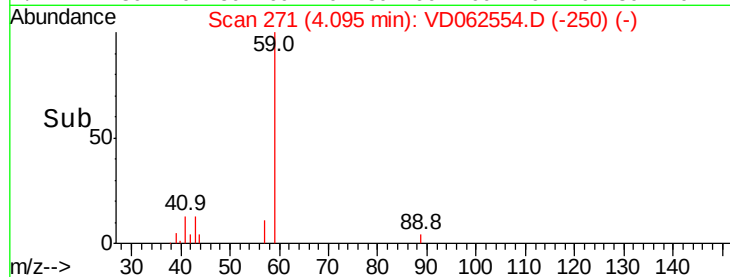
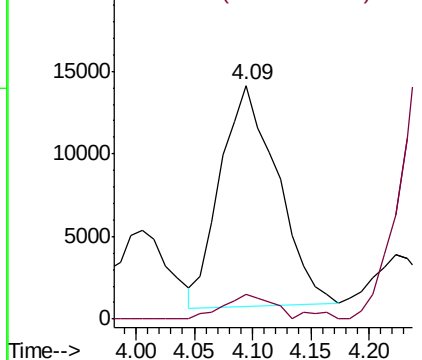
Tert butyl alcohol
Concen: 94.626 ug/l
RT: 4.09 min Scan# 271
Delta R.T. 0.00 min
Lab File: VD062554.D
Acq: 30 May 2019 15:27

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion: 59 Resp: 45412
Ion Ratio Lower Upper
59 100
57 10.7 5.4 8.0#



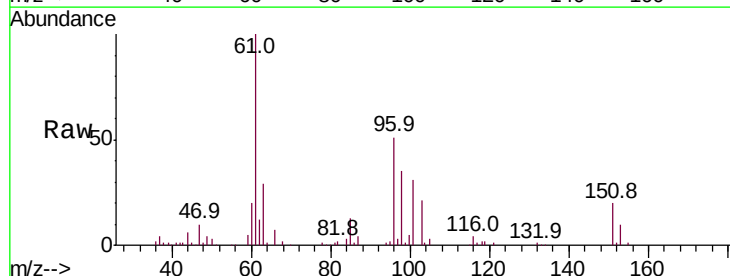
Abundance Ion 58.95 (58.65 to 59.65): VDC
Ion 56.95 (56.65 to 57.65): VDC



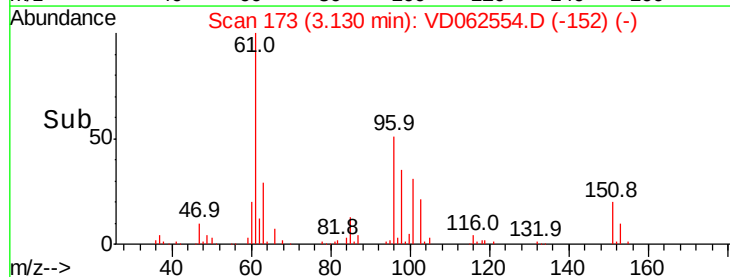
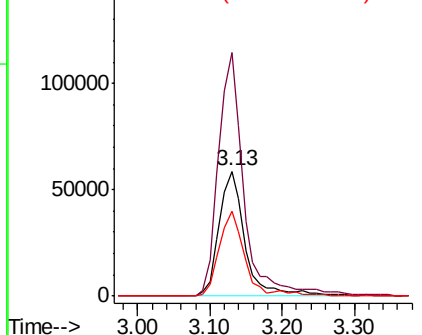
#12

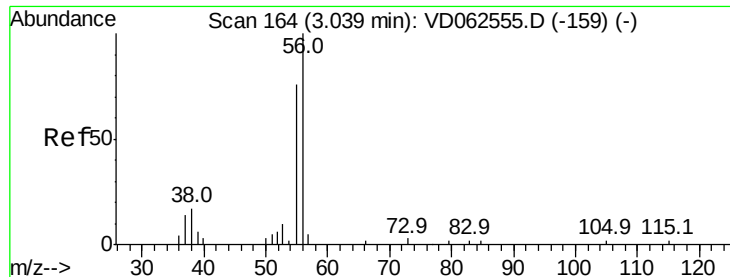
1,1-Dichloroethene
Concen: 20.497 ug/l
RT: 3.13 min Scan# 173
Delta R.T. 0.00 min
Lab File: VD062554.D
Acq: 30 May 2019 15:27

Tgt Ion: 96 Resp: 146634
Ion Ratio Lower Upper
96 100
61 195.5 166.6 250.0
98 68.0 54.4 81.6



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





#13

Acrolein

Concen: 89.271 ug/l

RT: 3.04 min Scan# 164

Delta R.T. 0.00 min

Lab File: VD062554.D

Acq: 30 May 2019 15:27

Instrument :

MSVOA_D

ClientSampleId :

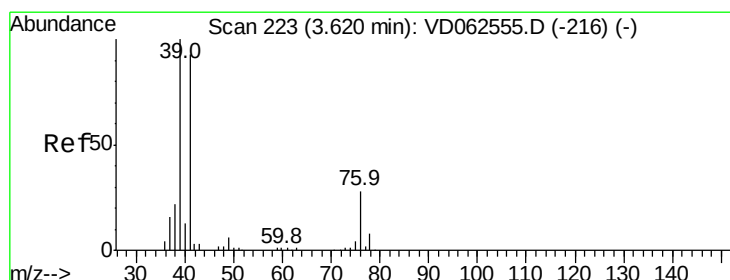
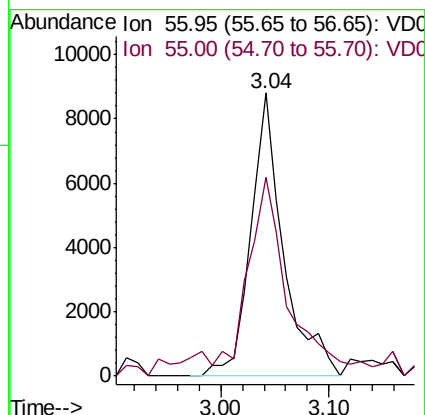
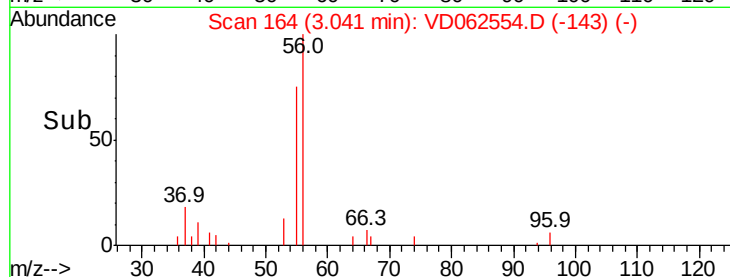
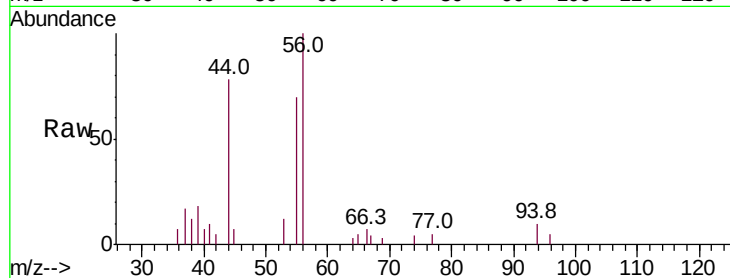
VSTDIC020

Tot Ion: 56 Resp: 18544

Ion Ratio Lower Upper

56 100

55 70.5 62.6 93.8



#14

Allyl chloride

Concen: 18.473 ug/l

RT: 3.62 min Scan# 223

Delta R.T. 0.00 min

Lab File: VD062554.D

Acq: 30 May 2019 15:27

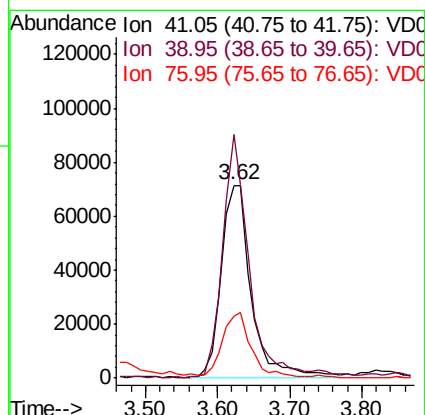
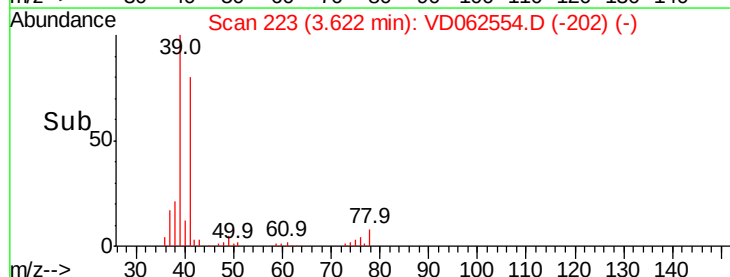
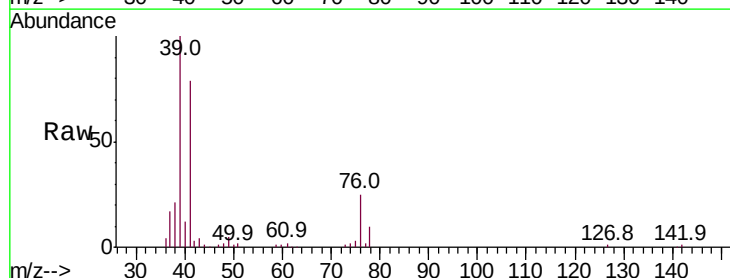
Tgt Ion: 41 Resp: 206906

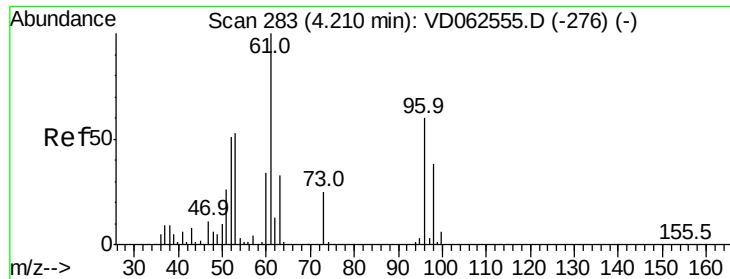
Ion Ratio Lower Upper

41 100

39 126.3 86.3 129.5

76 32.0 25.5 38.3





#15

Acrylonitrile

Concen: 98.642 ug/l

RT: 4.20 min Scan# 282

Delta R.T. -0.01 min

Lab File: VD062554.D

Acq: 30 May 2019 15:27

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

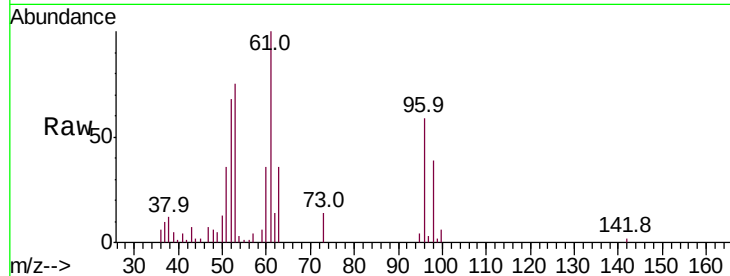
Tot Ion: 53 Resp: 106631

Ion Ratio Lower Upper

53 100

52 89.8 76.2 114.2

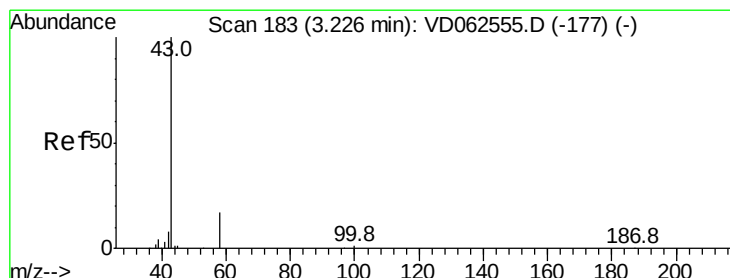
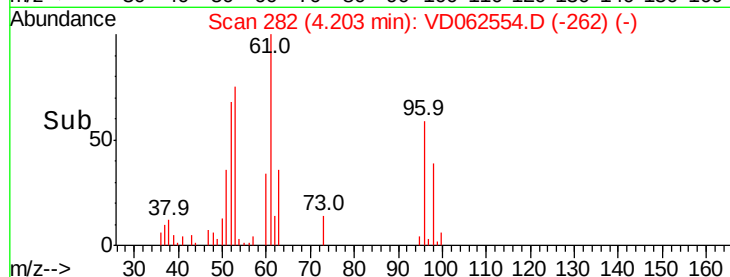
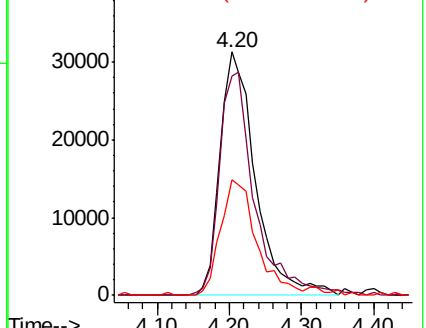
51 47.5 40.2 60.4



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: 86.140 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.00 min

Lab File: VD062554.D

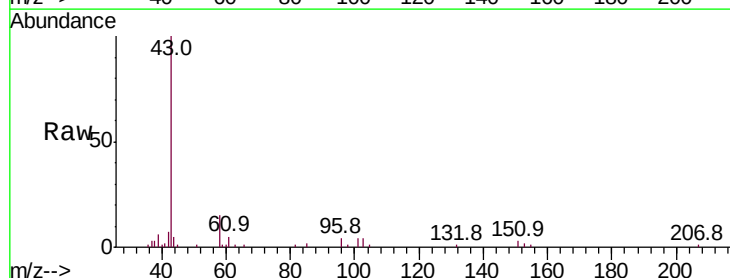
Acq: 30 May 2019 15:27

Tgt Ion: 43 Resp: 185461

Ion Ratio Lower Upper

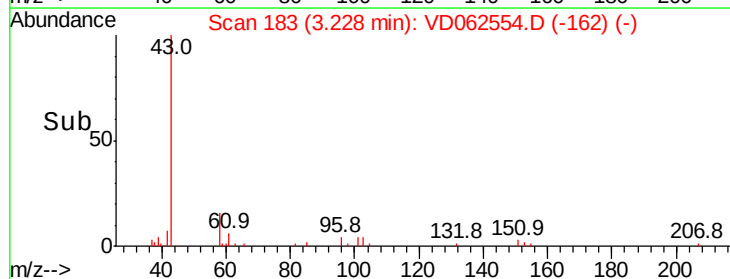
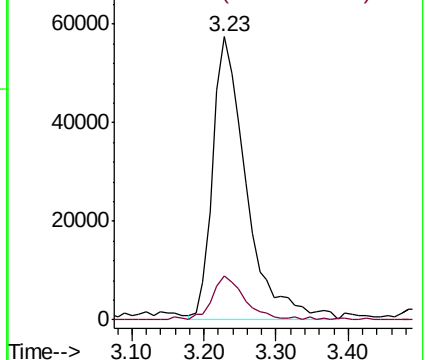
43 100

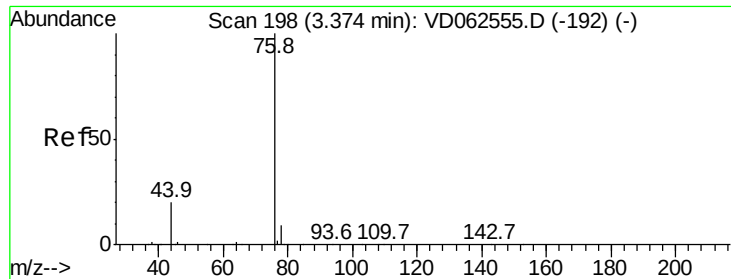
58 15.4 13.8 20.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#17

Carbon Disulfide

Concen: 19.211 ug/l

RT: 3.38 min Scan# 198

Delta R.T. 0.00 min

Lab File: VD062554.D

Acq: 30 May 2019 15:27

Instrument :

MSVOA_D

ClientSampleId :

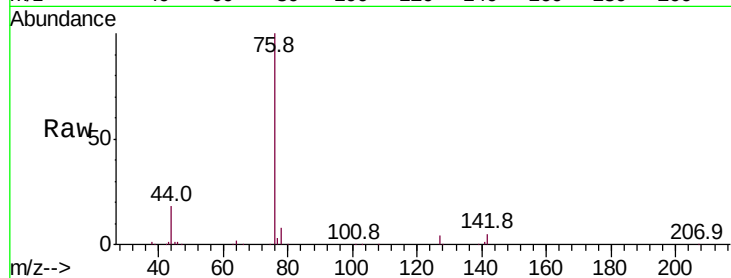
VSTDIC020

Tot Ion: 76 Resp: 436737

Ion Ratio Lower Upper

76 100

78 7.6 7.4 11.2



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

3.38

200000

150000

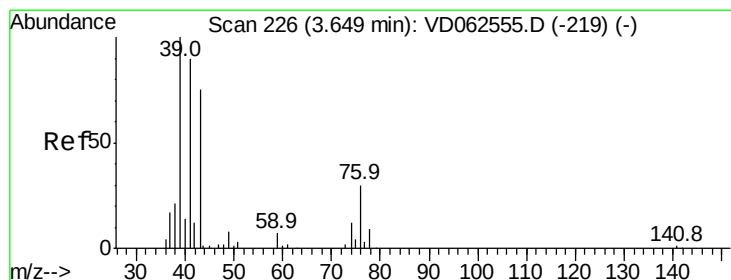
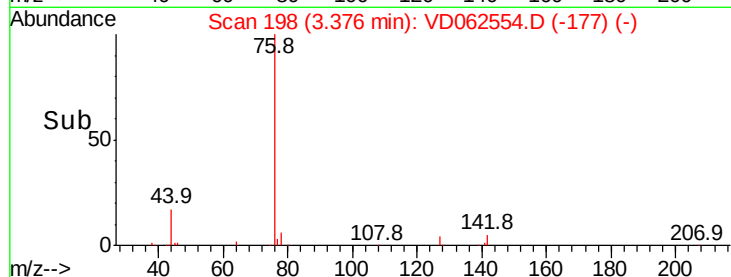
100000

50000

0

3.30 3.40 3.50

Time-->



#18

Methyl Acetate

Concen: 19.071 ug/l

RT: 3.65 min Scan# 226

Delta R.T. 0.00 min

Lab File: VD062554.D

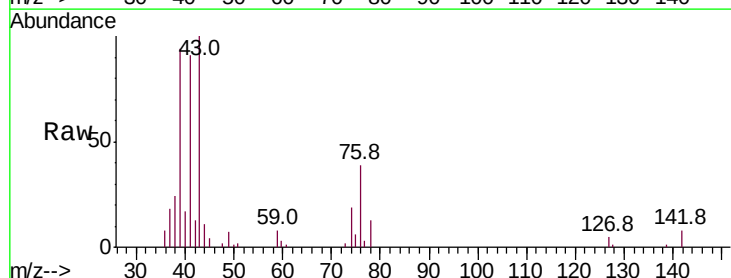
Acq: 30 May 2019 15:27

Tgt Ion: 43 Resp: 66793

Ion Ratio Lower Upper

43 100

74 19.0 12.5 18.7#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

3.65

25000

20000

15000

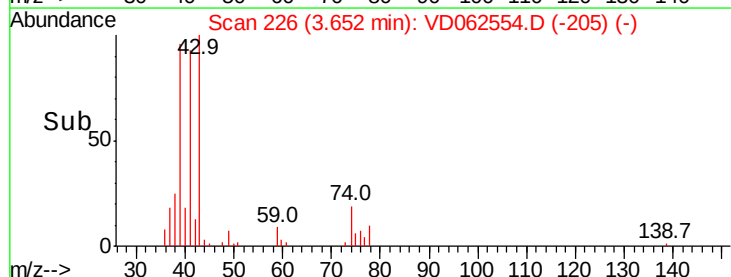
10000

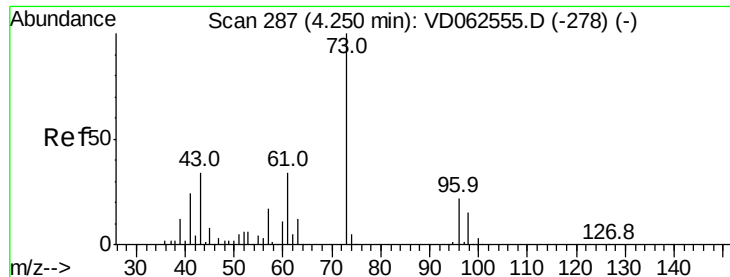
5000

0

3.60 3.70

Time-->



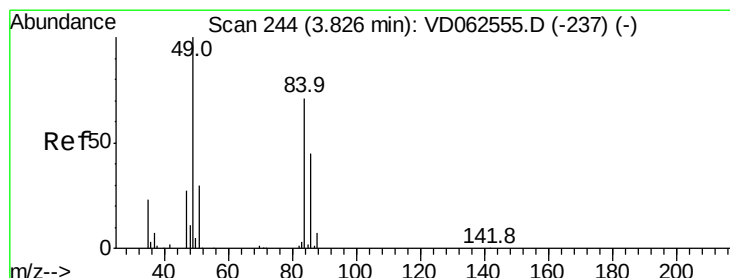
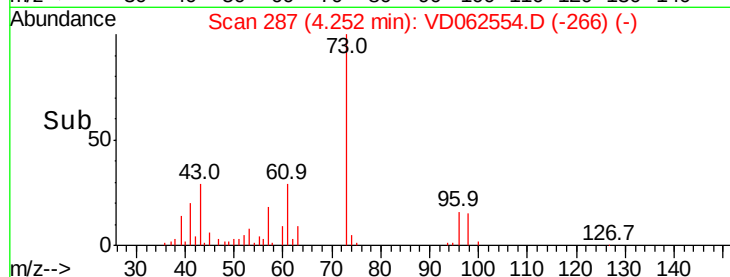
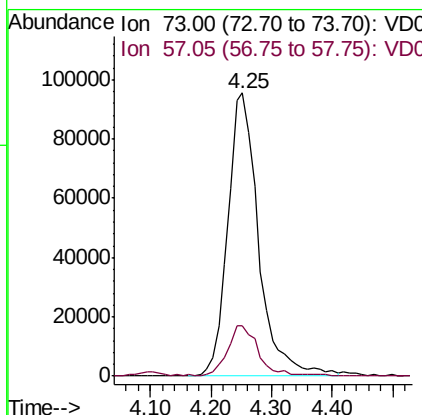
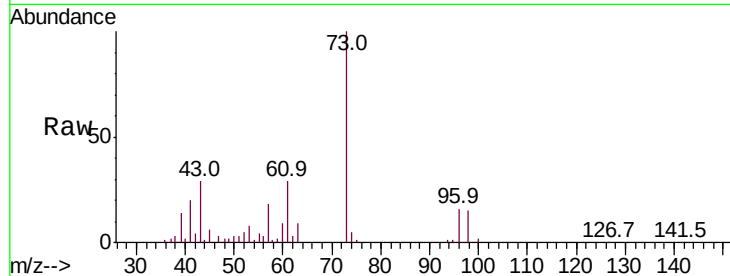


#19

Methyl tert-butyl Ether
 Concen: 19.357 ug/l
 RT: 4.25 min Scan# 287
 Delta R.T. 0.00 min
 Lab File: VD062554.D
 Acq: 30 May 2019 15:27

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

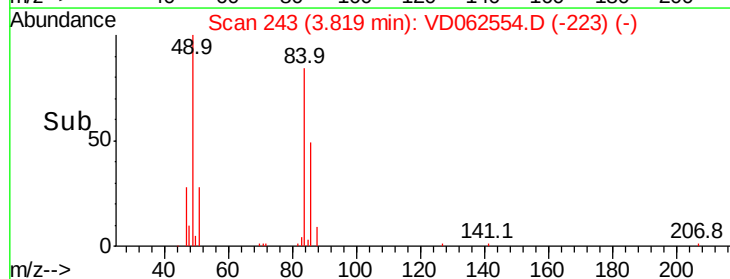
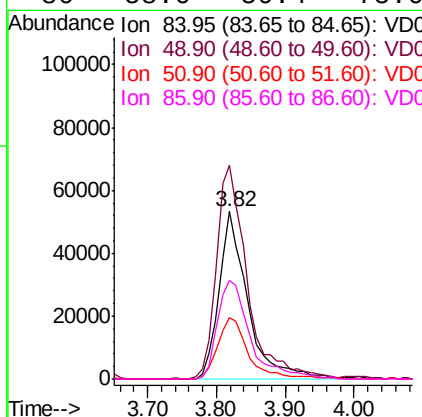
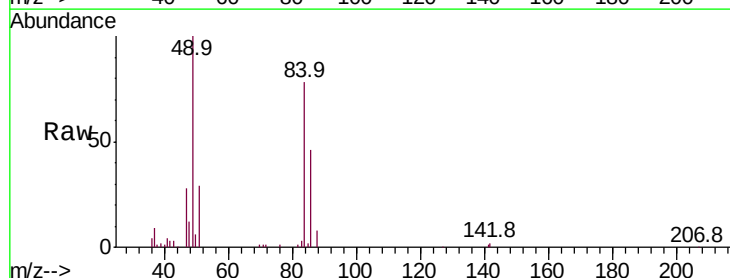
Tot Ion: 73 Resp: 337299
 Ion Ratio Lower Upper
 73 100
 57 17.6 13.8 20.8

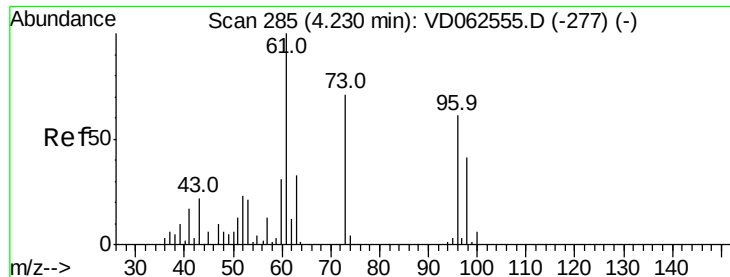


#20

Methylene Chloride
 Concen: 20.353 ug/l
 RT: 3.82 min Scan# 243
 Delta R.T. -0.01 min
 Lab File: VD062554.D
 Acq: 30 May 2019 15:27

Tgt Ion: 84 Resp: 153578
 Ion Ratio Lower Upper
 84 100
 49 127.4 112.3 168.5
 51 36.5 33.6 50.4
 86 58.6 50.4 75.6





#21

trans-1,2-Dichloroethene

Concen: 19.105 ug/l

RT: 4.22 min Scan# 284

Delta R.T. -0.01 min

Lab File: VD062554.D

Acq: 30 May 2019 15:27

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

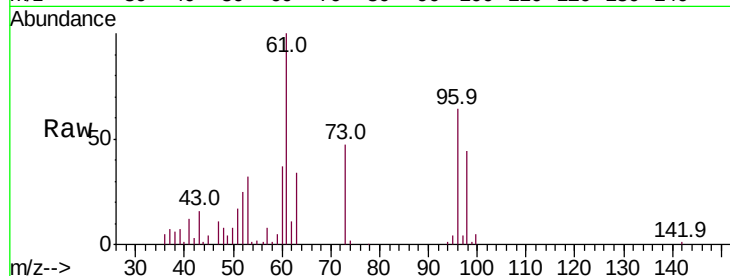
Tot Ion: 96 Resp: 154959

Ion Ratio Lower Upper

96 100

61 155.7 131.1 196.7

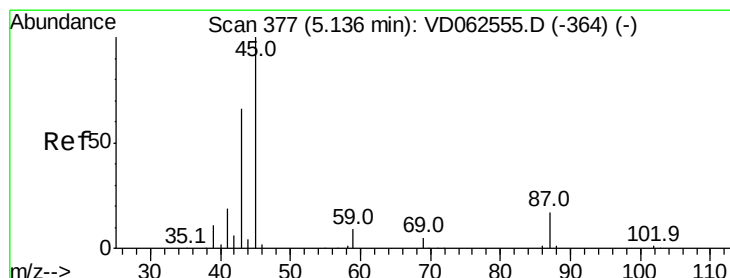
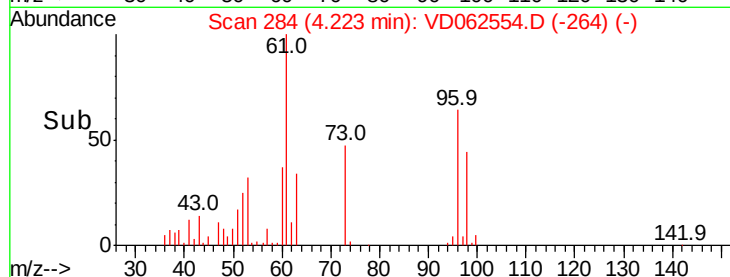
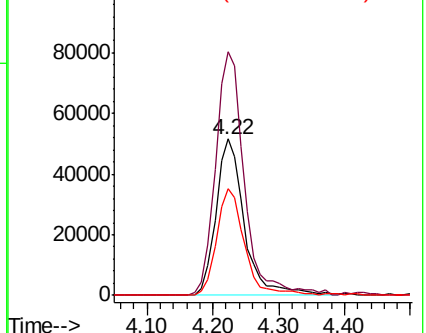
98 68.3 54.2 81.4



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



#22

Diisopropyl ether

Concen: 19.533 ug/l

RT: 5.14 min Scan# 377

Delta R.T. 0.00 min

Lab File: VD062554.D

Acq: 30 May 2019 15:27

Tgt Ion: 45 Resp: 440396

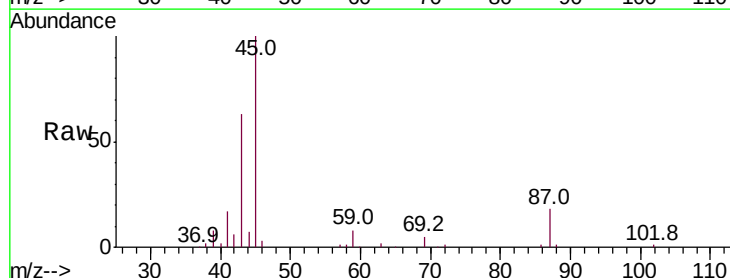
Ion Ratio Lower Upper

45 100

43 63.3 53.6 80.4

87 17.5 14.2 21.4

59 8.2 7.3 10.9

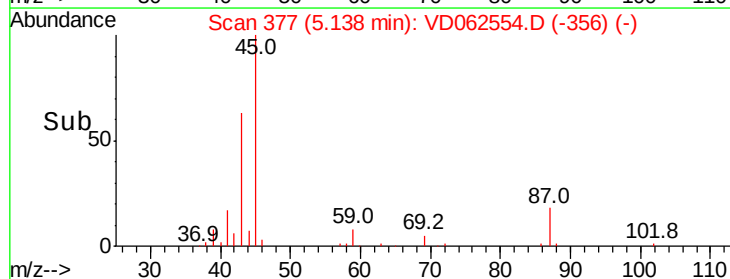
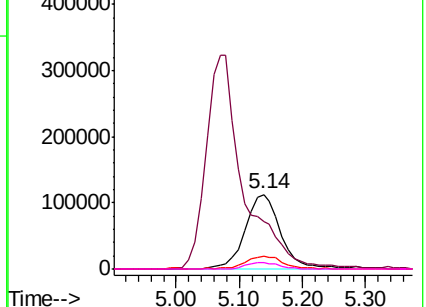


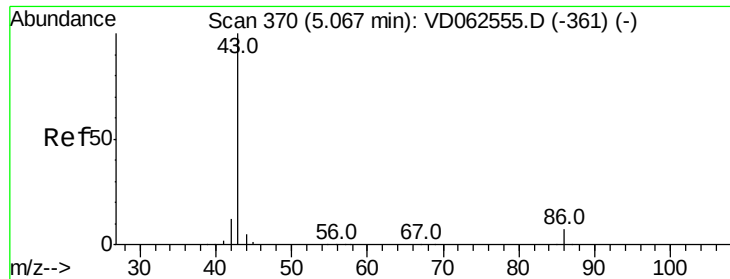
Abundance Ion 45.05 (44.75 to 45.75): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 87.00 (86.70 to 87.70): VDC

Ion 58.95 (58.65 to 59.65): VDC





#23

Vinyl Acetate

Concen: 96.472 ug/l

RT: 5.08 min Scan# 371

Delta R.T. 0.01 min

Lab File: VD062554.D

Acq: 30 May 2019 15:27

Instrument :

MSVOA_D

ClientSampleId :

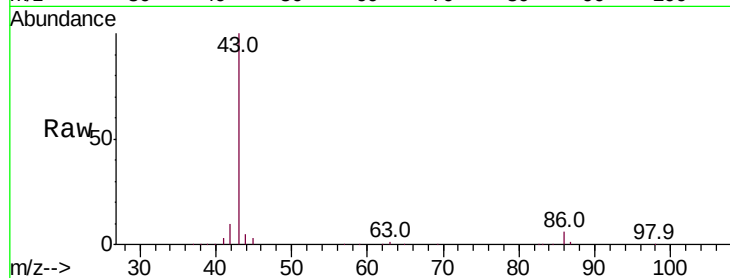
VSTDIC020

Tot Ion: 43 Resp: 1323753

Ion Ratio Lower Upper

43 100

86 6.0 5.5 8.3



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC

5.08

300000

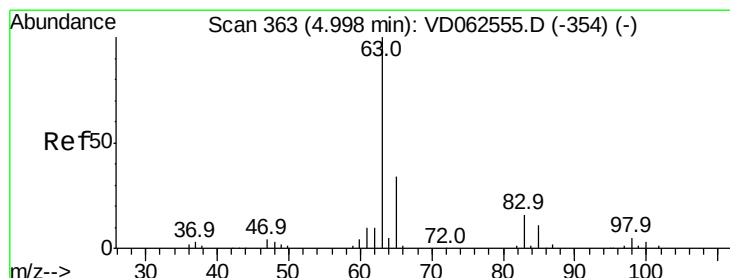
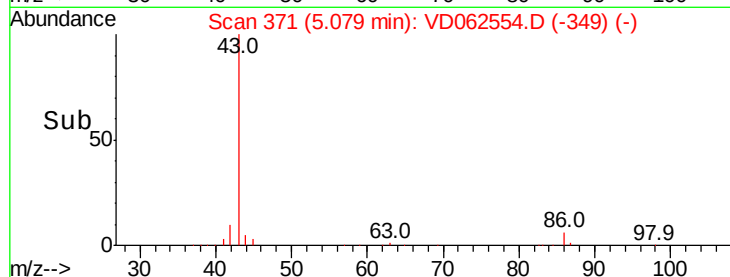
200000

100000

0

Time-->

4.90 5.00 5.10 5.20 5.30



#24

1,1-Dichloroethane

Concen: 19.537 ug/l

RT: 4.99 min Scan# 362

Delta R.T. -0.01 min

Lab File: VD062554.D

Acq: 30 May 2019 15:27

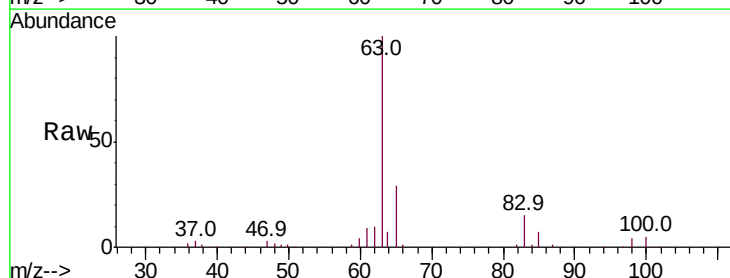
Tgt Ion: 63 Resp: 287769

Ion Ratio Lower Upper

63 100

98 3.7 2.5 7.5

100 4.7 1.6 4.7#



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

4.99

100000

80000

60000

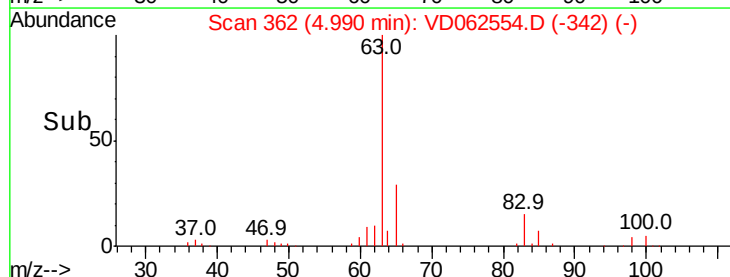
40000

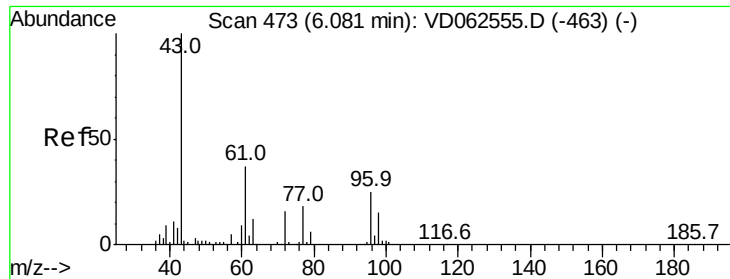
20000

0

Time-->

4.80 4.90 5.00 5.10 5.20





#25

2-Butanone

Concen: 90.248 ug/l

RT: 6.08 min Scan# 473

Delta R.T. 0.00 min

Lab File: VD062554.D

Acq: 30 May 2019 15:27

Instrument :

MSVOA_D

ClientSampleId :

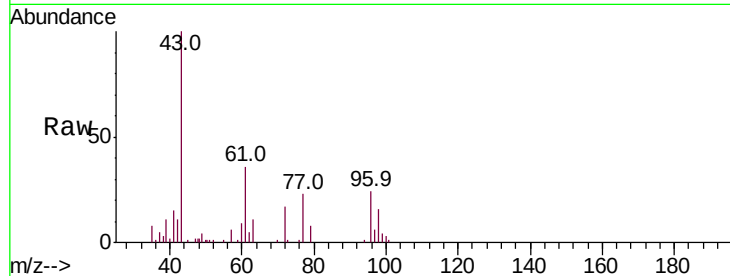
VSTDIC020

Tot Ion: 43 Resp: 178565

Ion Ratio Lower Upper

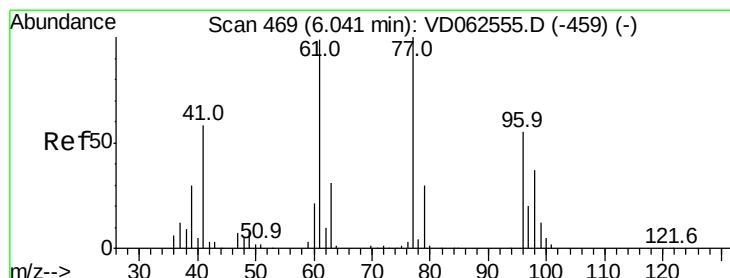
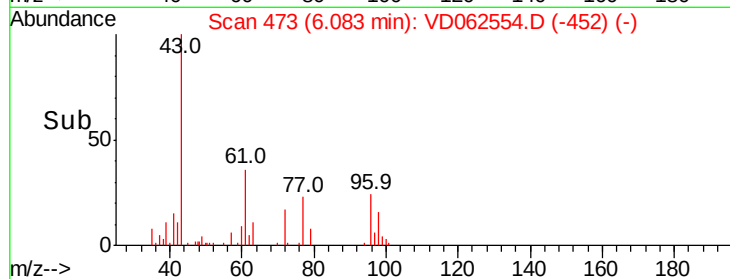
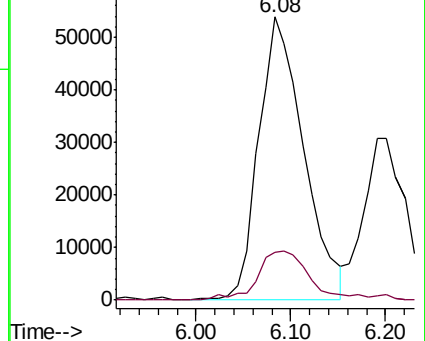
43 100

72 16.9 12.7 19.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 18.616 ug/l

RT: 6.03 min Scan# 468

Delta R.T. -0.01 min

Lab File: VD062554.D

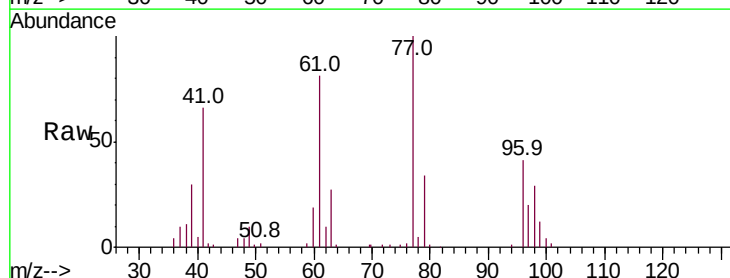
Acq: 30 May 2019 15:27

Tgt Ion: 77 Resp: 297723

Ion Ratio Lower Upper

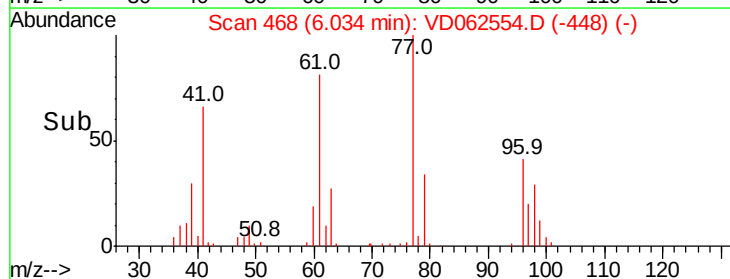
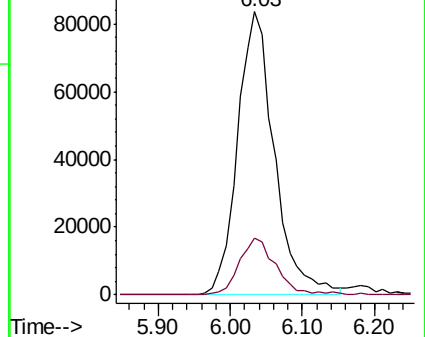
77 100

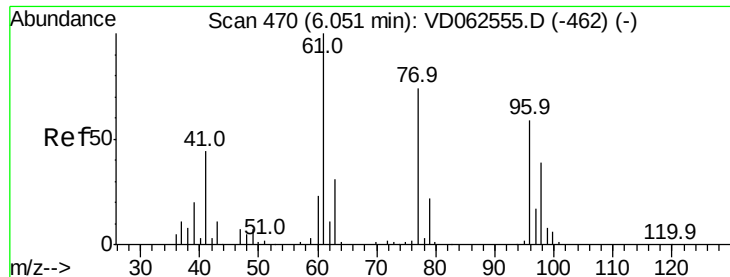
97 20.1 9.8 29.3



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



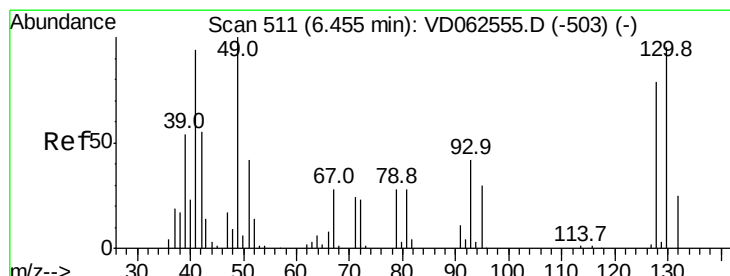
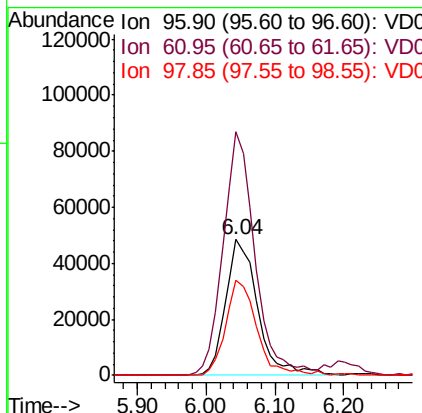
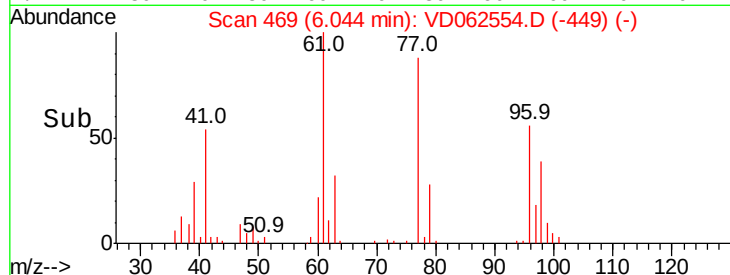
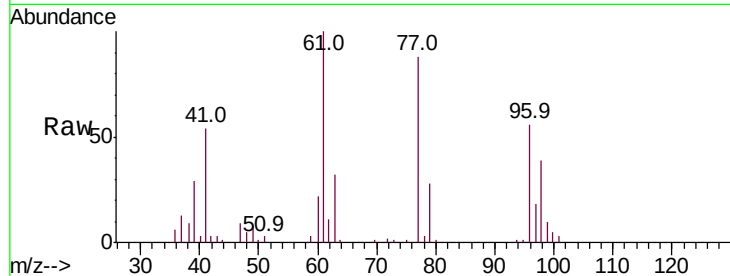


#27

cis-1,2-Dichloroethene
Concen: 18.781 ug/l
RT: 6.04 min Scan# 469
Delta R.T. -0.01 min
Lab File: VD062554.D
Acq: 30 May 2019 15:27

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

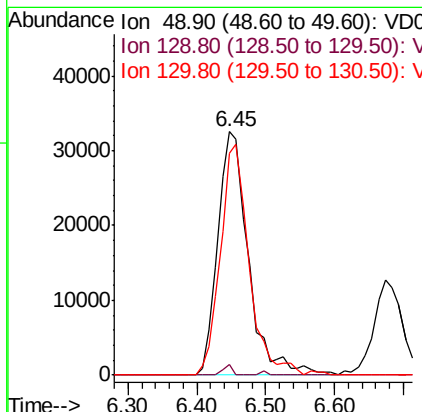
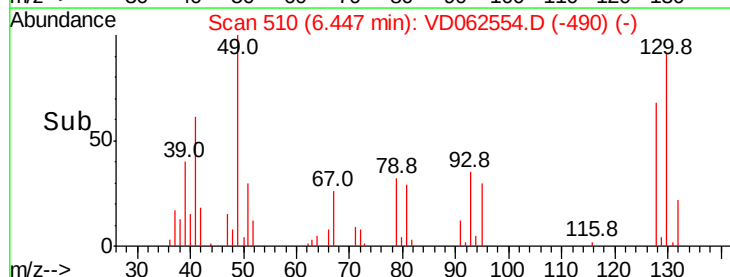
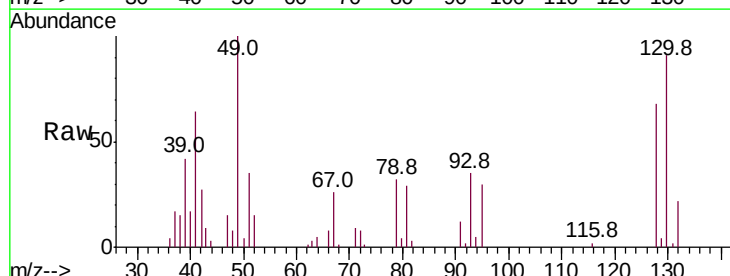
Tot Ion: 96 Resp: 156911
Ion Ratio Lower Upper
96 100
61 179.3 0.0 342.4
98 69.9 0.0 134.6

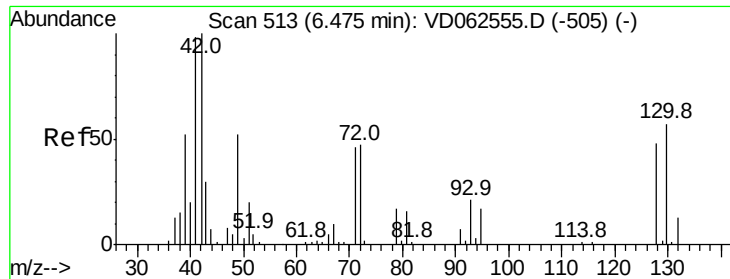


#28

Bromochloromethane
Concen: 20.485 ug/l
RT: 6.45 min Scan# 510
Delta R.T. -0.01 min
Lab File: VD062554.D
Acq: 30 May 2019 15:27

Tgt Ion: 49 Resp: 100076
Ion Ratio Lower Upper
49 100
129 4.2 0.0 5.6
130 91.2 75.8 113.8





#29

Tetrahydrofuran

Concen: 93.806 ug/l

RT: 6.48 min Scan# 513

Delta R.T. 0.00 min

Lab File: VD062554.D

Acq: 30 May 2019 15:27

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

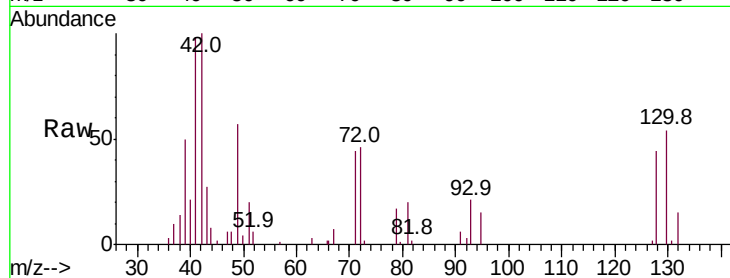
Tot Ion: 42 Resp: 85332

Ion Ratio Lower Upper

42 100

72 44.7 34.5 51.7

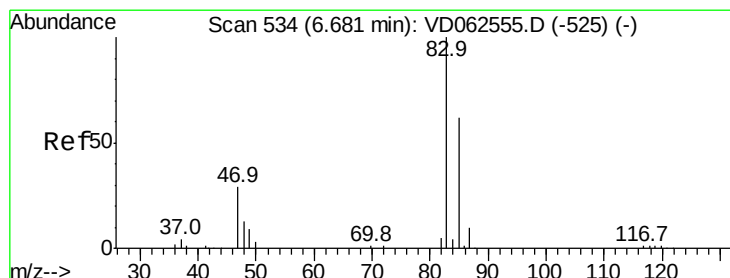
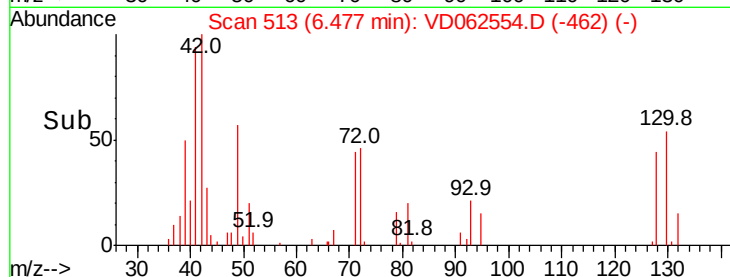
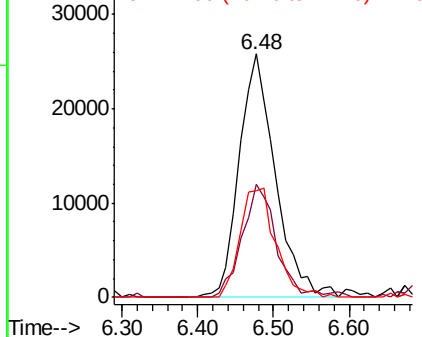
71 44.8 33.0 49.6



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: 19.403 ug/l

RT: 6.68 min Scan# 534

Delta R.T. 0.00 min

Lab File: VD062554.D

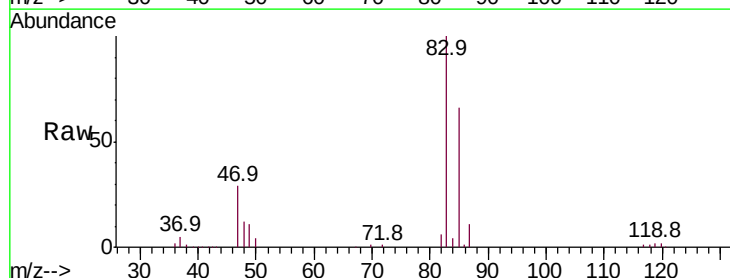
Acq: 30 May 2019 15:27

Tgt Ion: 83 Resp: 343901

Ion Ratio Lower Upper

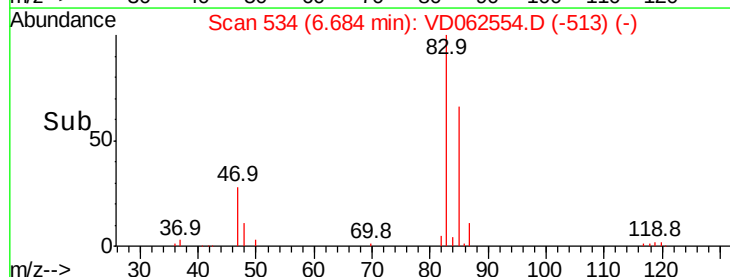
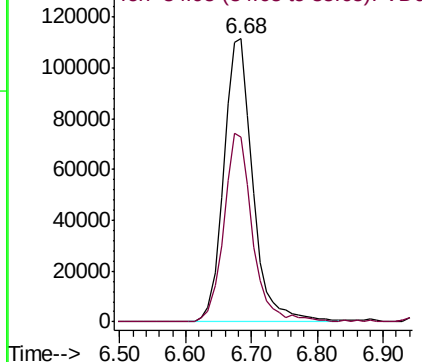
83 100

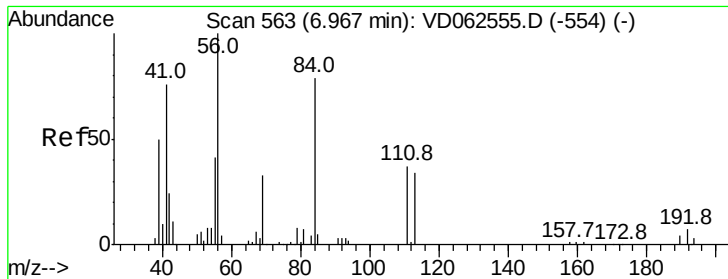
85 65.5 49.4 74.0



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

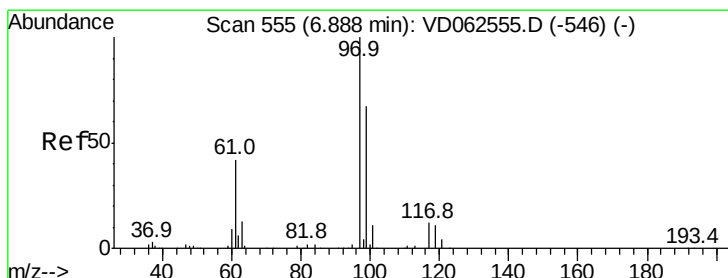
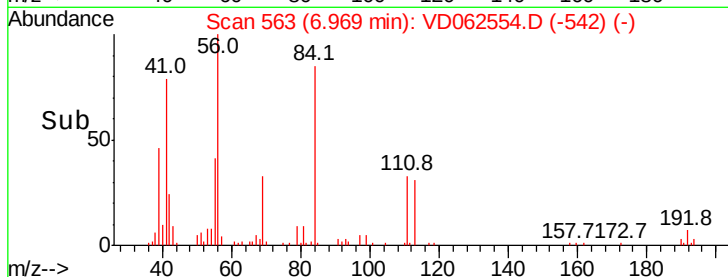
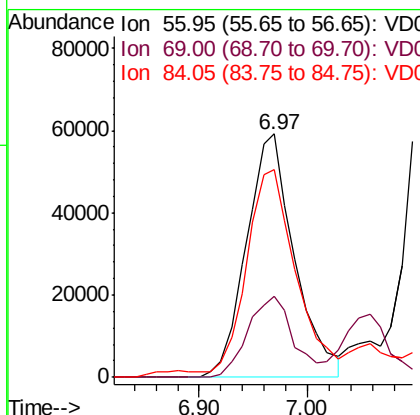
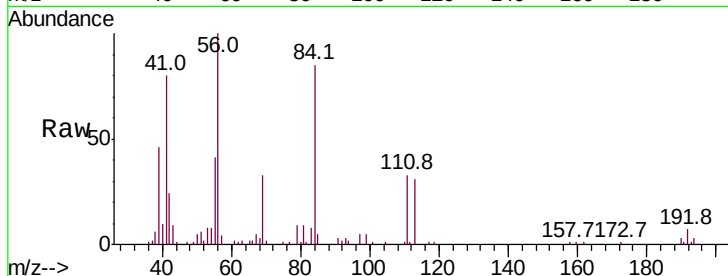




#31
Cyclohexane
Concen: 18.762 ug/l
RT: 6.97 min Scan# 563
Delta R.T. 0.00 min
Lab File: VD062554.D
Acq: 30 May 2019 15:27

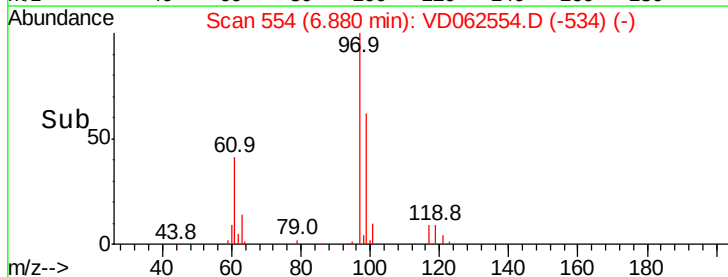
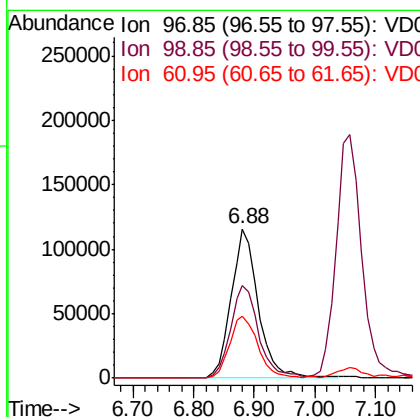
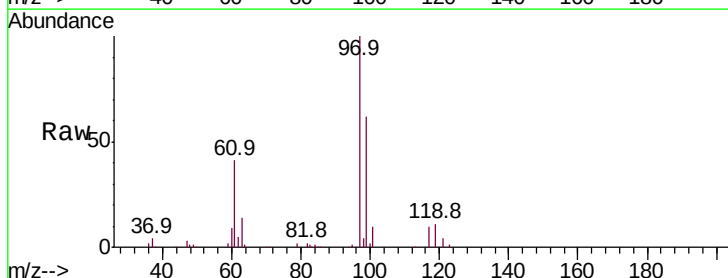
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

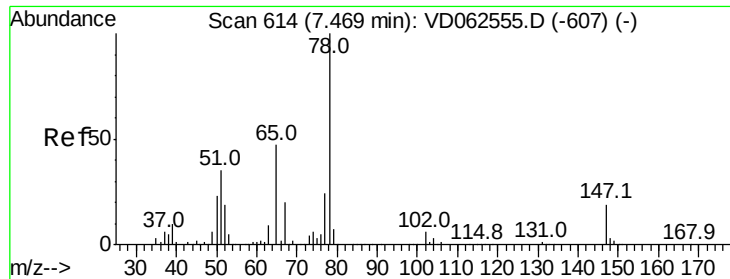
Tot Ion: 56 Resp: 183084
Ion Ratio Lower Upper
56 100
69 33.0 26.2 39.2
84 85.1 65.2 97.8



#32
1,1,1-Trichloroethane
Concen: 19.817 ug/l
RT: 6.88 min Scan# 554
Delta R.T. -0.01 min
Lab File: VD062554.D
Acq: 30 May 2019 15:27

Tgt Ion: 97 Resp: 358674
Ion Ratio Lower Upper
97 100
99 62.0 53.6 80.4
61 41.4 33.9 50.9

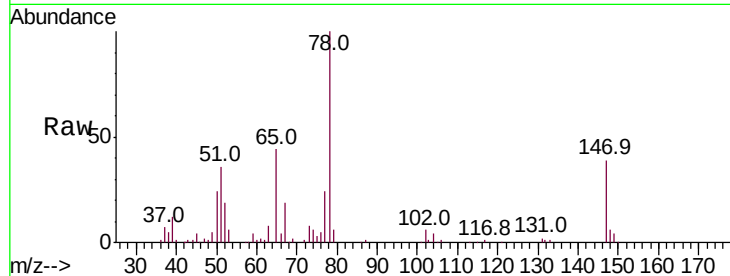




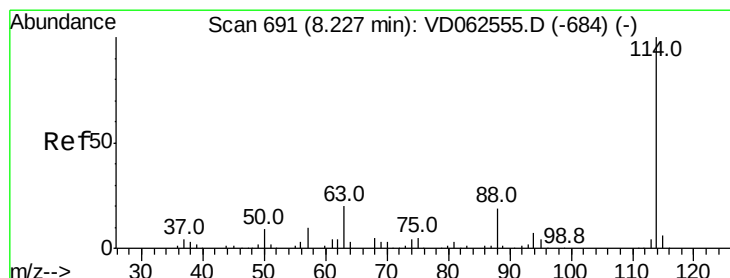
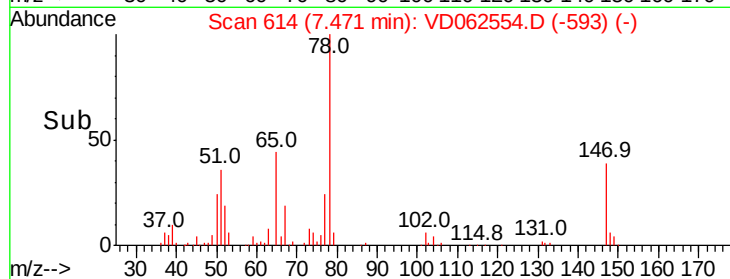
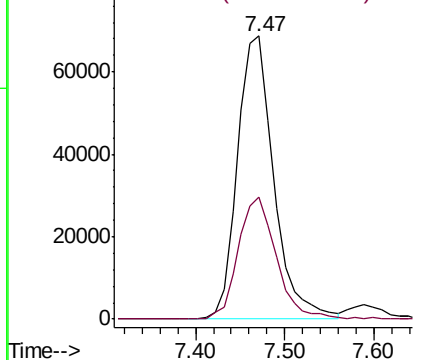
#33
 1,2-Dichloroethane-d4
 Concen: 18.639 ug/l
 RT: 7.47 min Scan# 614
 Delta R.T. 0.00 min
 Lab File: VD062554.D
 Acq: 30 May 2019 15:27

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion: 65 Resp: 194573
 Ion Ratio Lower Upper
 65 100
 67 43.3 0.0 83.6

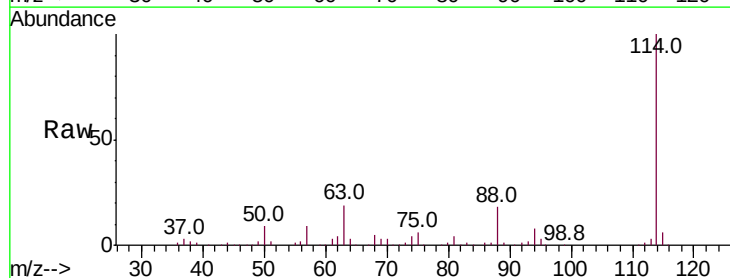


Abundance Ion 64.95 (64.65 to 65.65): VDC
 Ion 66.90 (66.60 to 67.60): VDC

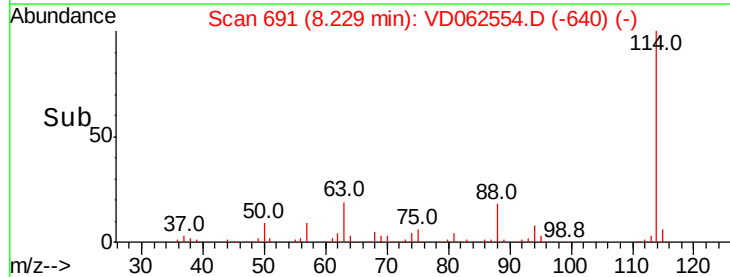
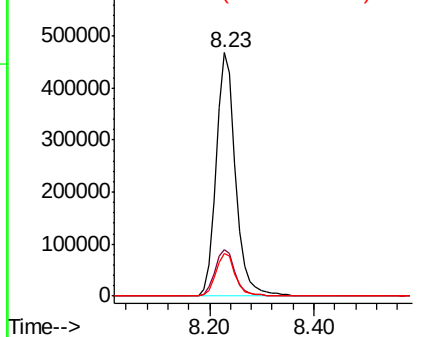


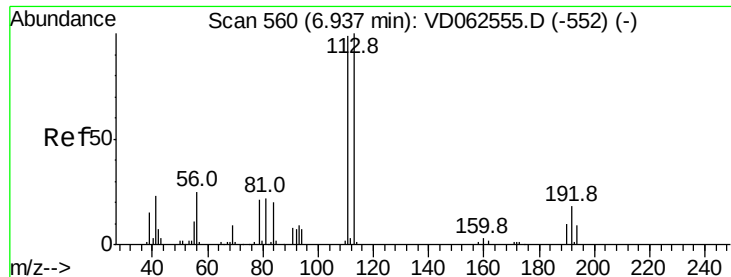
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.23 min Scan# 691
 Delta R.T. 0.00 min
 Lab File: VD062554.D
 Acq: 30 May 2019 15:27

Tgt Ion: 114 Resp: 1212266
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 40.6
 88 17.6 0.0 37.6



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

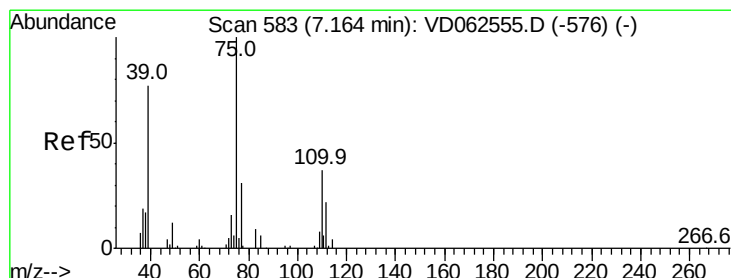
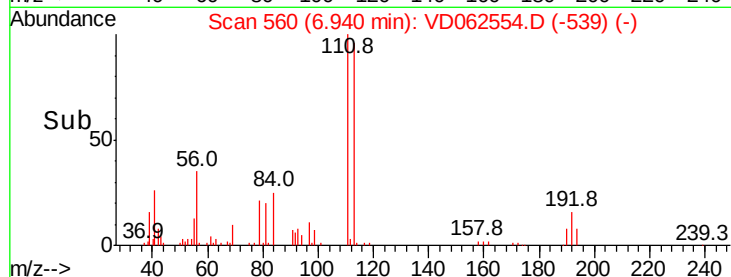
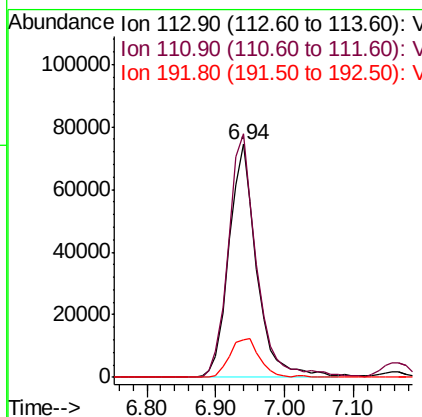
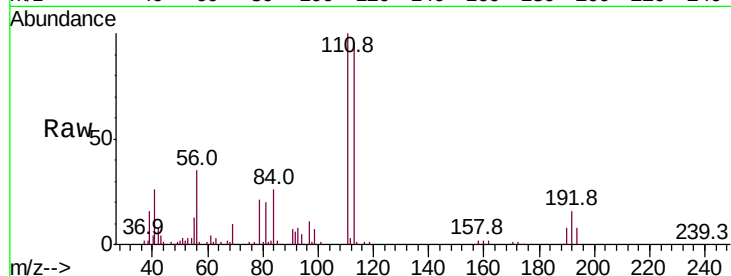




#35
 Dibromofluoromethane
 Concen: 18.488 ug/l
 RT: 6.94 min Scan# 560
 Delta R.T. 0.00 min
 Lab File: VD062554.D
 Acq: 30 May 2019 15:27

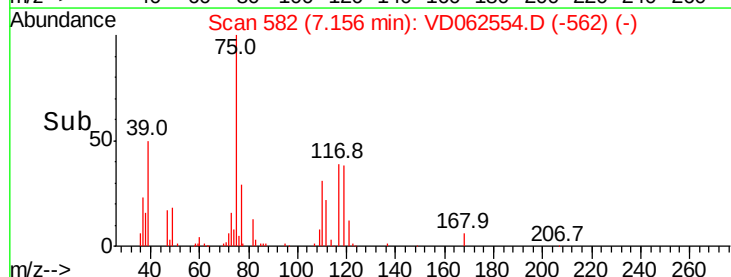
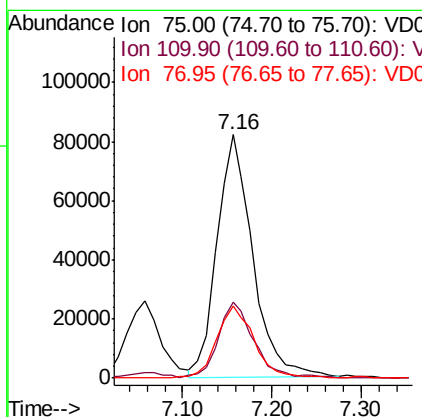
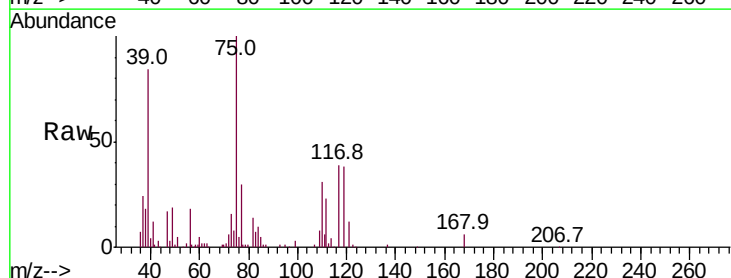
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

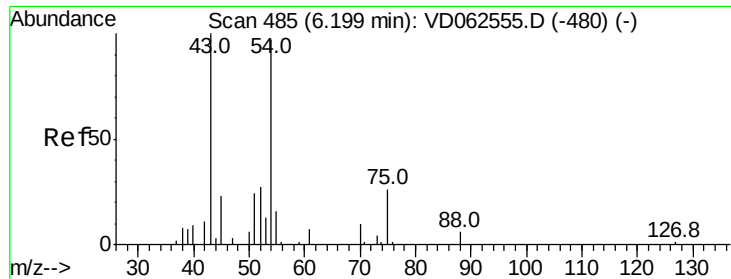
Tot Ion	Ratio	Lower	Upper
113	100		
111	104.5	78.8	118.2
192	16.4	14.6	22.0



#36
 1,1-Dichloropropene
 Concen: 18.606 ug/l
 RT: 7.16 min Scan# 582
 Delta R.T. -0.01 min
 Lab File: VD062554.D
 Acq: 30 May 2019 15:27

Tgt Ion	Ratio	Lower	Upper
75	100		
110	31.3	18.3	54.8
77	29.5	24.4	36.6

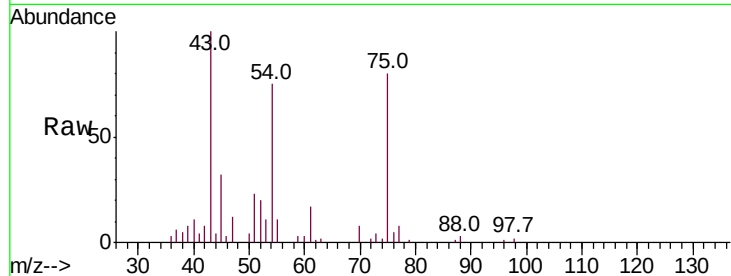




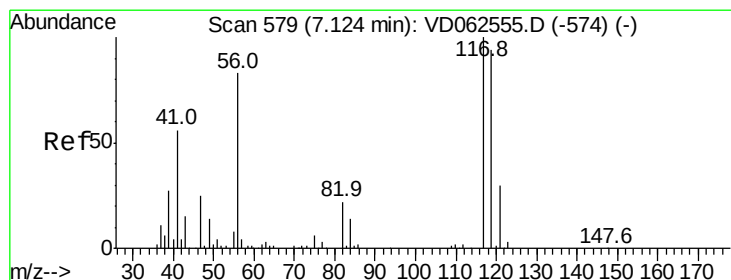
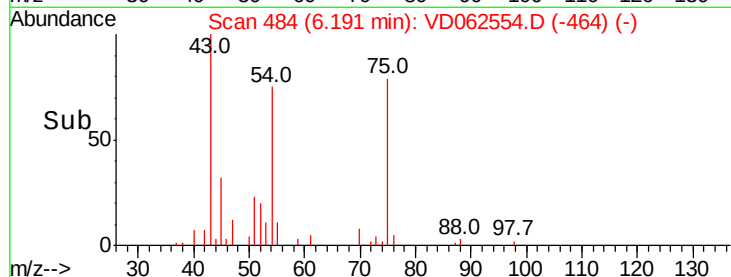
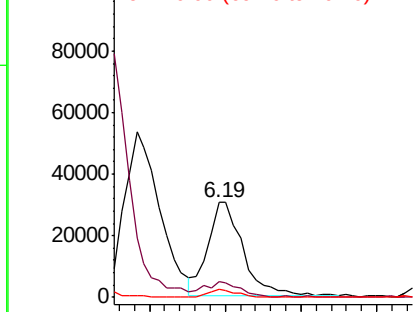
#37
Ethyl Acetate
Concen: 17.709 ug/l
RT: 6.19 min Scan# 484
Delta R.T. -0.01 min
Lab File: VD062554.D
Acq: 30 May 2019 15:27

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion: 43 Resp: 97224
Ion Ratio Lower Upper
43 100
61 16.5 9.8 14.8#
70 8.1 6.5 9.7

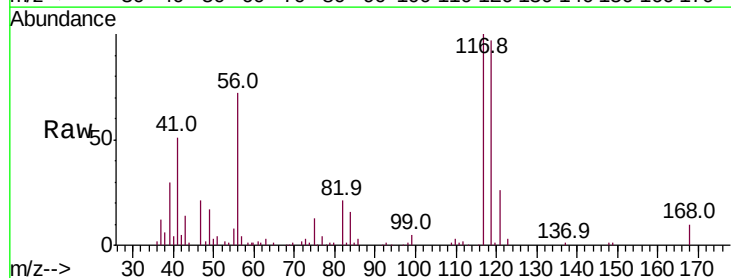


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

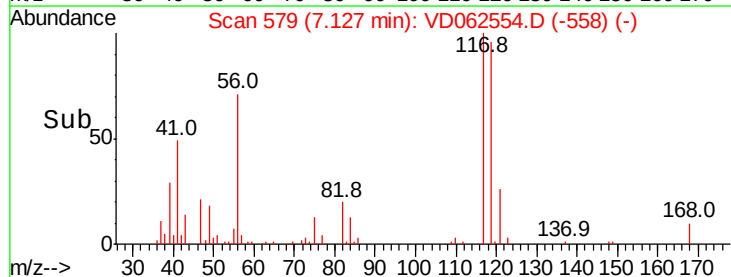
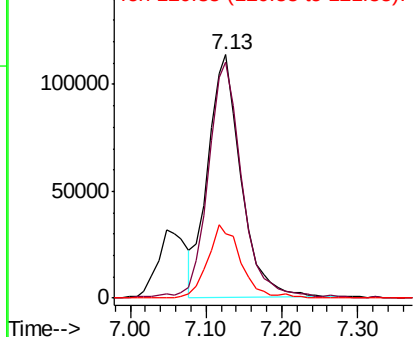


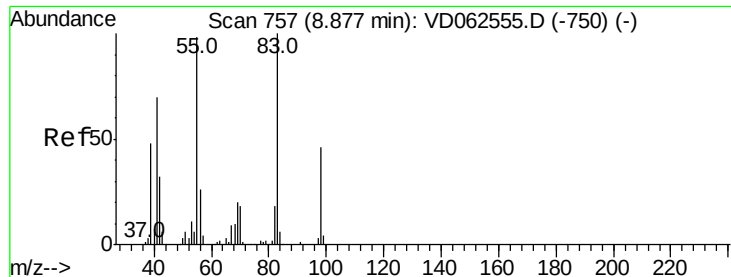
#38
Carbon Tetrachloride
Concen: 18.513 ug/l
RT: 7.13 min Scan# 579
Delta R.T. 0.00 min
Lab File: VD062554.D
Acq: 30 May 2019 15:27

Tgt Ion: 117 Resp: 343785
Ion Ratio Lower Upper
117 100
119 97.0 71.4 107.2
121 26.3 22.5 33.7



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

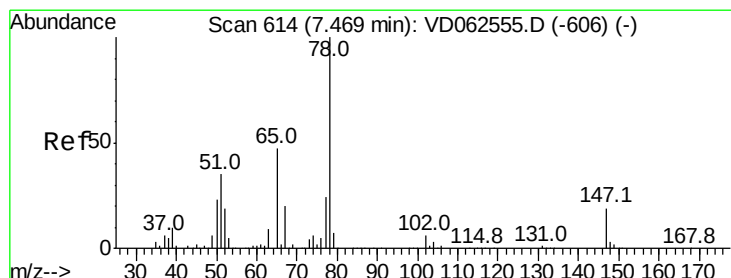
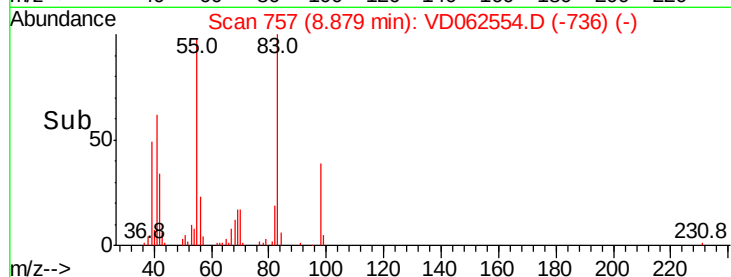
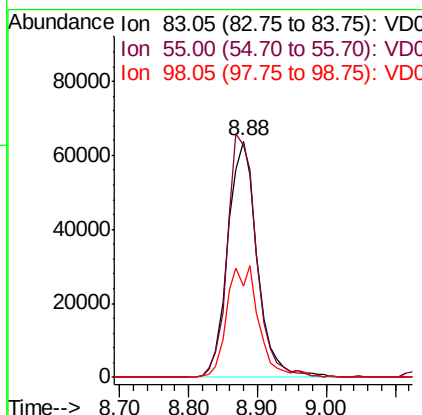
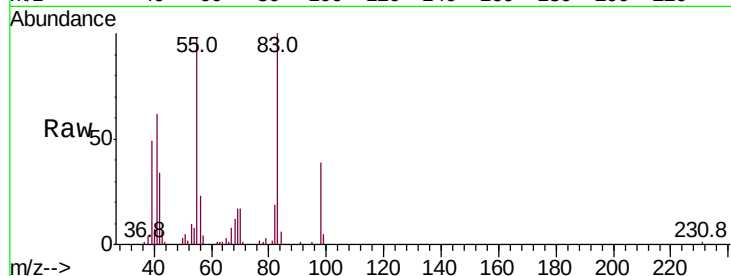




#39
Methylvlcyclohexane
Concen: 18.336 ug/l
RT: 8.88 min Scan# 757
Delta R.T. 0.00 min
Lab File: VD062554.D
Acq: 30 May 2019 15:27

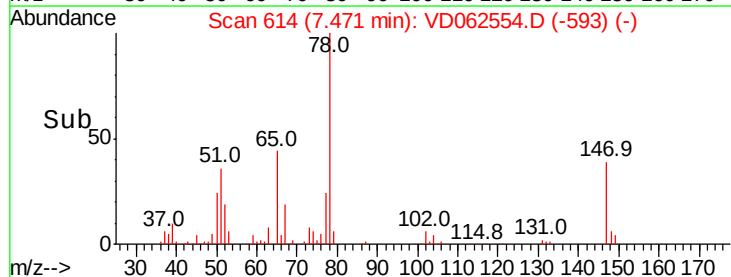
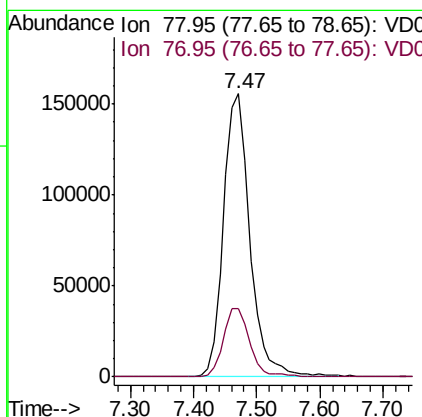
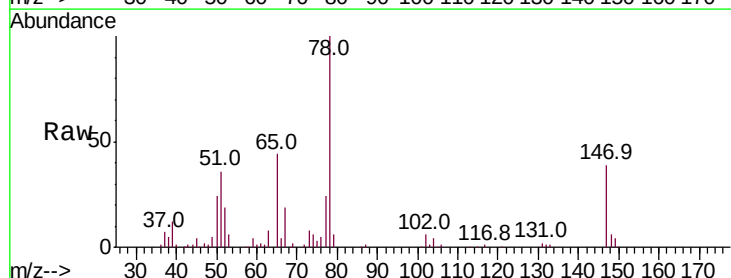
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

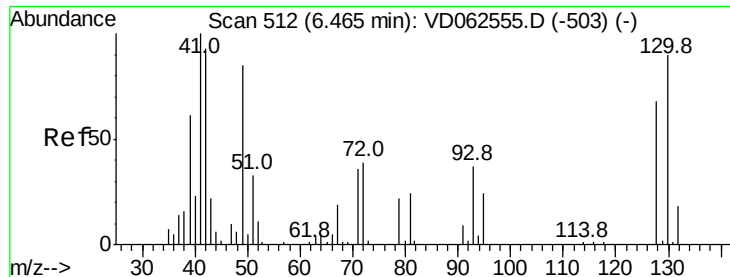
Tot Ion: 83 Resp: 188858
Ion Ratio Lower Upper
83 100
55 98.2 78.7 118.1
98 38.7 37.2 55.8



#40
Benzene
Concen: 18.747 ug/l
RT: 7.47 min Scan# 614
Delta R.T. 0.00 min
Lab File: VD062554.D
Acq: 30 May 2019 15:27

Tgt Ion: 78 Resp: 452748
Ion Ratio Lower Upper
78 100
77 24.3 19.1 28.7

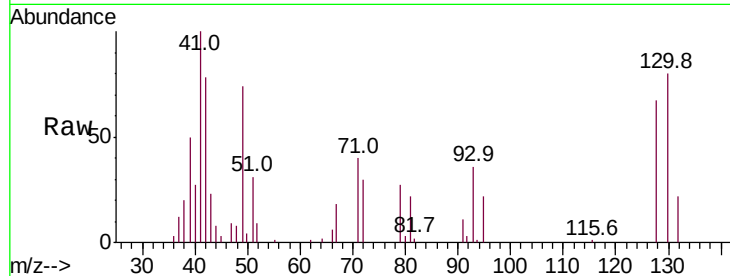




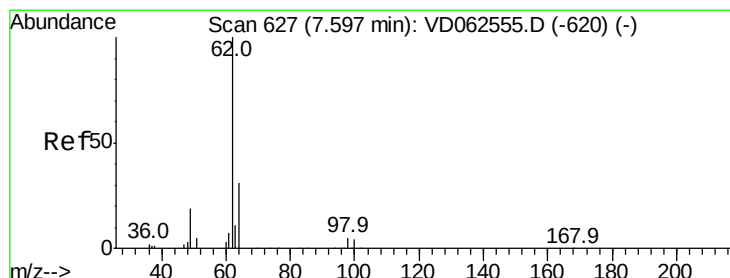
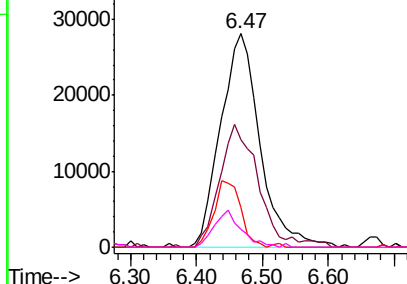
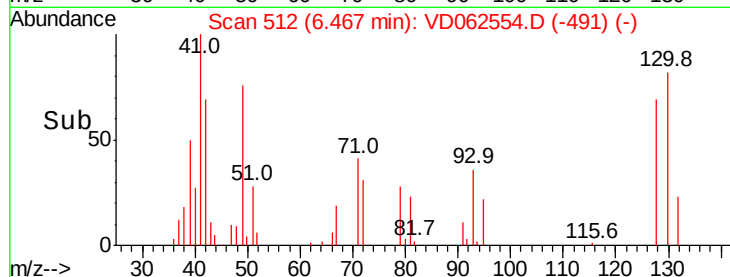
#41
Methacrylonitrile
Concen: 19.062 ug/l
RT: 6.47 min Scan# 512
Delta R.T. 0.00 min
Lab File: VD062554.D
Acq: 30 May 2019 15:27

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion: 41 Resp: 117306
Ion Ratio Lower Upper
41 100
39 50.3 49.0 73.6
67 18.4 15.5 23.3
52 8.7 8.9 13.3#

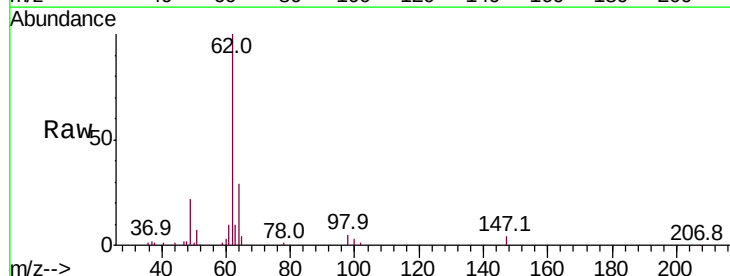


Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 38.95 (38.65 to 39.65): VDC
Ion 67.00 (66.70 to 67.70): VDC
Ion 52.00 (51.70 to 52.70): VDC

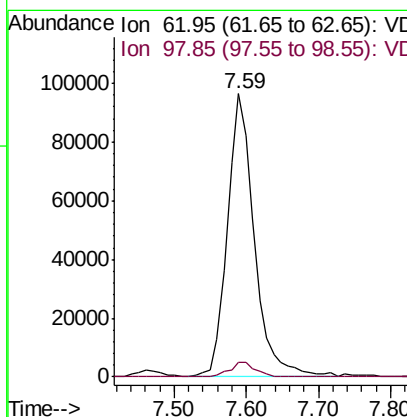
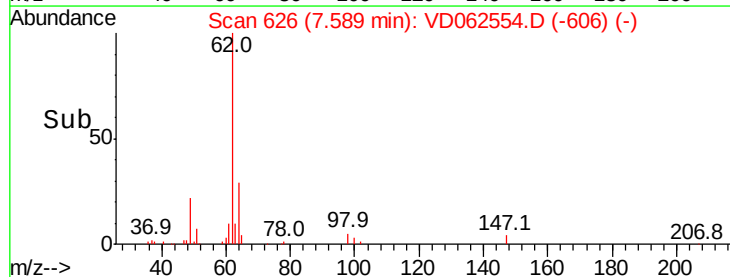


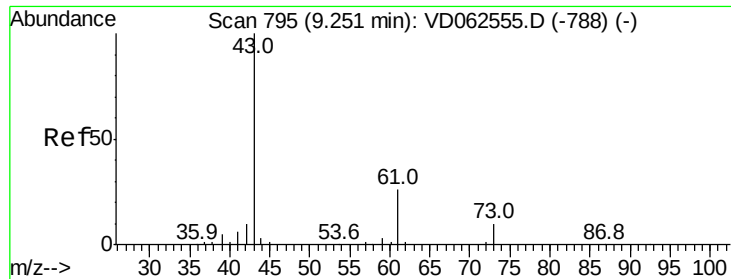
#42
1,2-Dichloroethane
Concen: 18.623 ug/l
RT: 7.59 min Scan# 626
Delta R.T. -0.01 min
Lab File: VD062554.D
Acq: 30 May 2019 15:27

Tgt Ion: 62 Resp: 251101
Ion Ratio Lower Upper
62 100
98 5.0 0.0 11.0



Abundance Ion 61.95 (61.65 to 62.65): VDC
Ion 97.85 (97.55 to 98.55): VDC





#43

Isopropyl Acetate

Concen: 18.757 ug/l

RT: 9.25 min Scan# 795

Delta R.T. 0.00 min

Lab File: VD062554.D

Acq: 30 May 2019 15:27

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

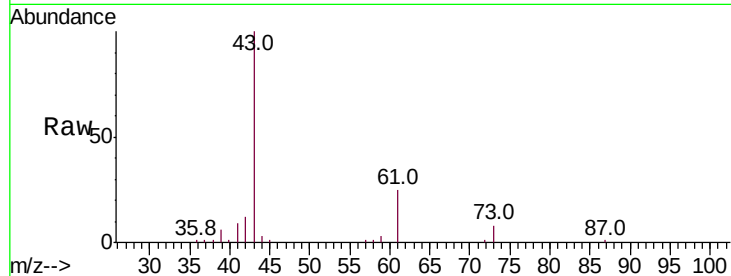
Tot Ion: 43 Resp: 122096

Ion Ratio Lower Upper

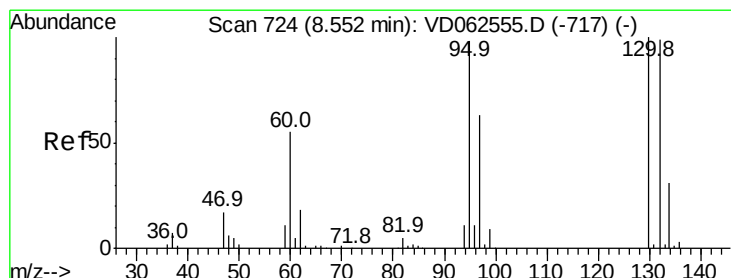
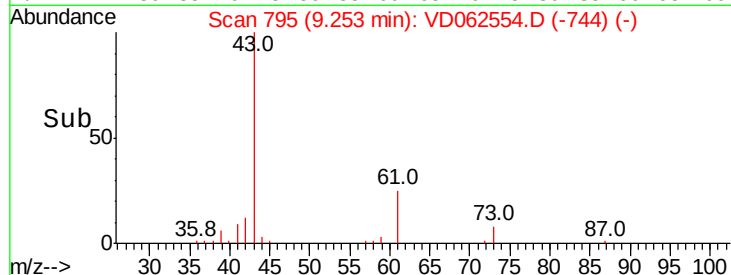
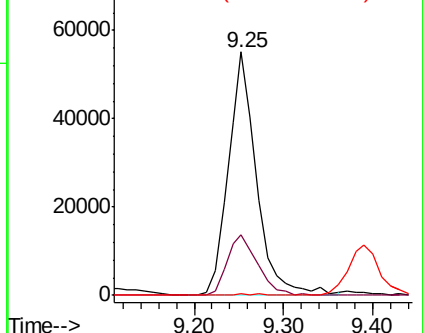
43 100

61 24.7 20.5 30.7

87 0.6 0.2 0.2#



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: 19.588 ug/l

RT: 8.55 min Scan# 724

Delta R.T. 0.00 min

Lab File: VD062554.D

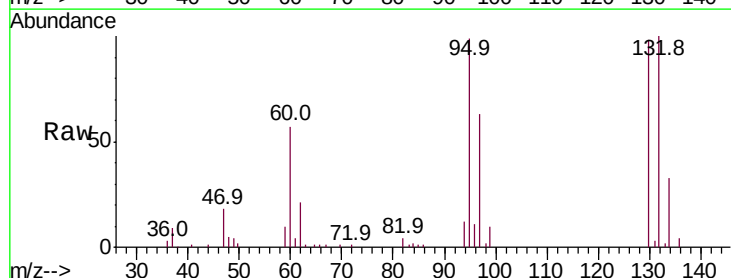
Acq: 30 May 2019 15:27

Tgt Ion:130 Resp: 189355

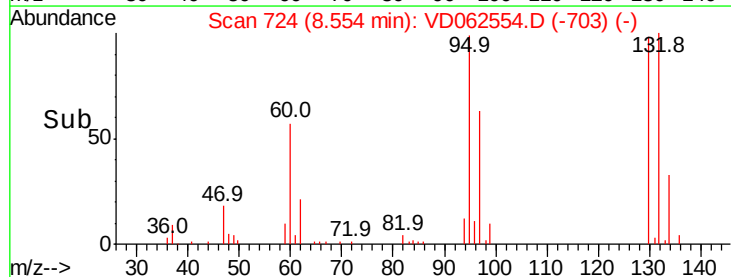
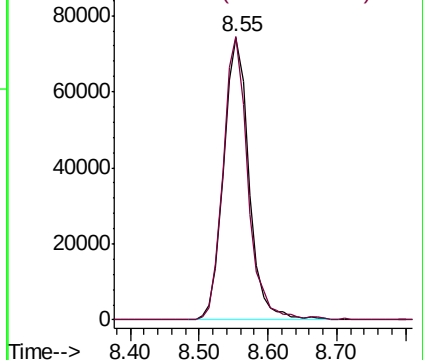
Ion Ratio Lower Upper

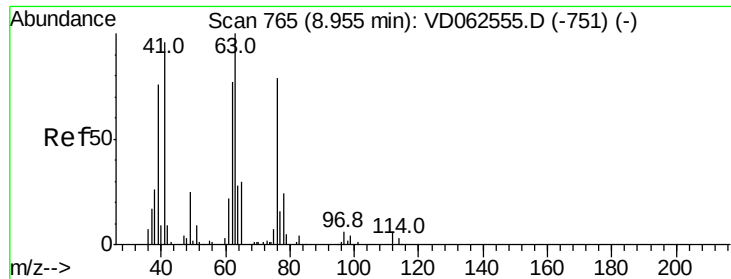
130 100

95 100.3 0.0 196.6



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





#45

1,2-Dichloropropane

Concen: 19.810 ug/l

RT: 8.95 min Scan# 764

Delta R.T. -0.01 min

Lab File: VD062554.D

Acq: 30 May 2019 15:27

Instrument :

MSVOA_D

ClientSampleId :

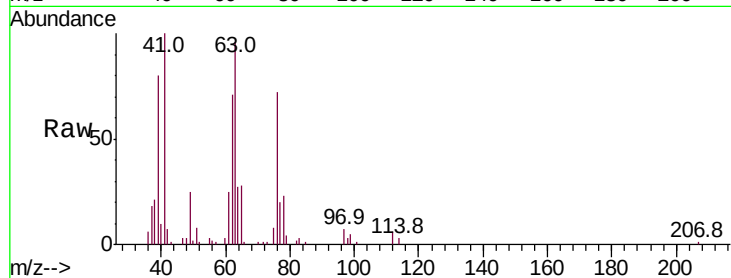
VSTDIC020

Tot Ion: 63 Resp: 117519

Ion Ratio Lower Upper

63 100

65 29.2 23.7 35.5



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC

8.95

50000

40000

30000

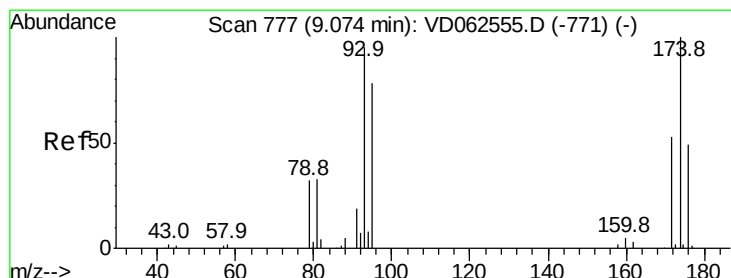
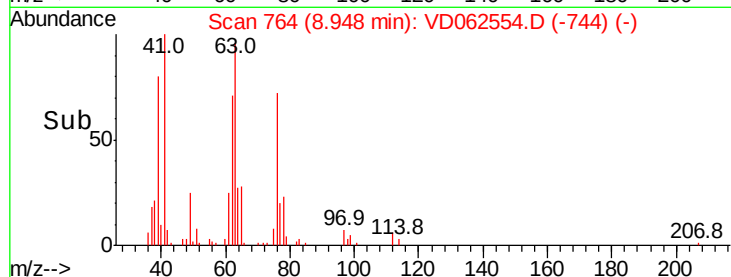
20000

10000

0

8.90 9.00 9.10

Time-->



#46

Dibromomethane

Concen: 19.740 ug/l

RT: 9.08 min Scan# 777

Delta R.T. 0.00 min

Lab File: VD062554.D

Acq: 30 May 2019 15:27

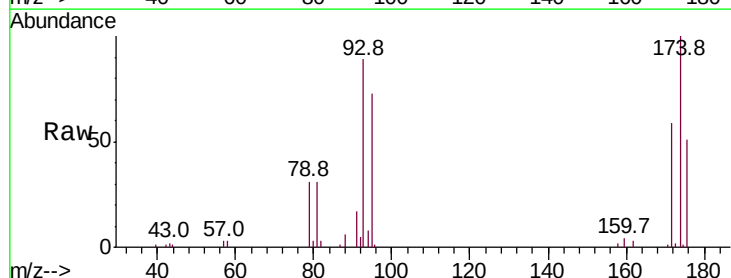
Tgt Ion: 93 Resp: 97676

Ion Ratio Lower Upper

93 100

95 82.1 66.1 99.1

174 113.0 84.2 126.4



Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

9.08

60000

50000

40000

30000

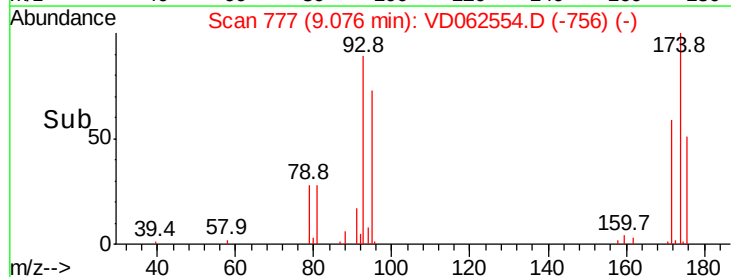
20000

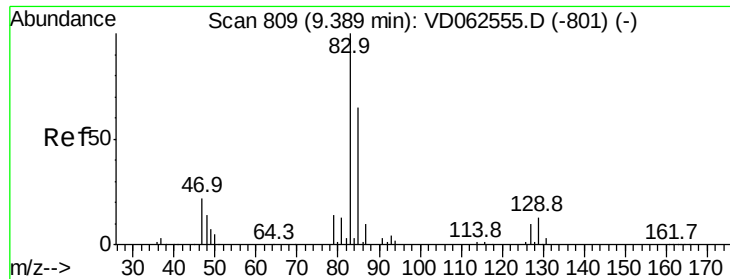
10000

0

9.00 9.10 9.20

Time-->





#47

Bromodichloromethane

Concen: 19.393 ug/l

RT: 9.39 min Scan# 809

Delta R.T. 0.00 min

Lab File: VD062554.D

Acq: 30 May 2019 15:27

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

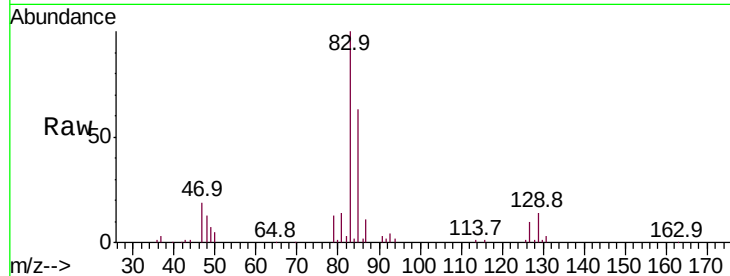
Tot Ion: 83 Resp: 266560

Ion Ratio Lower Upper

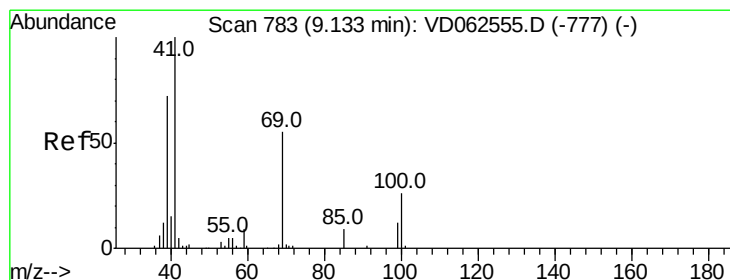
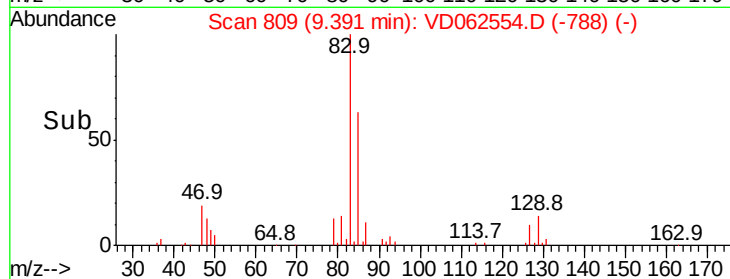
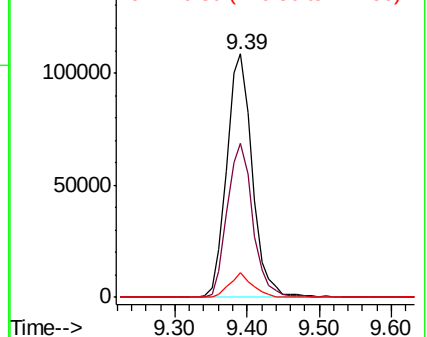
83 100

85 63.3 51.8 77.8

127 10.3 7.8 11.6



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



#48

Methyl methacrylate

Concen: 18.103 ug/l

RT: 9.13 min Scan# 783

Delta R.T. 0.00 min

Lab File: VD062554.D

Acq: 30 May 2019 15:27

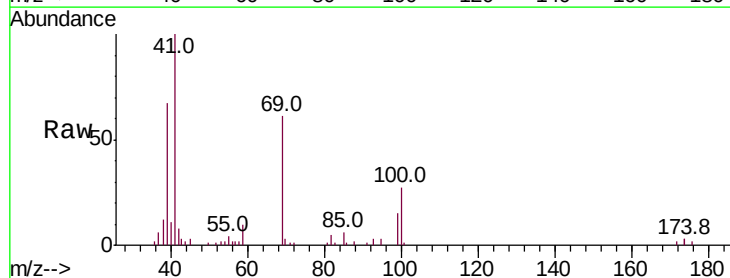
Tgt Ion: 41 Resp: 80970

Ion Ratio Lower Upper

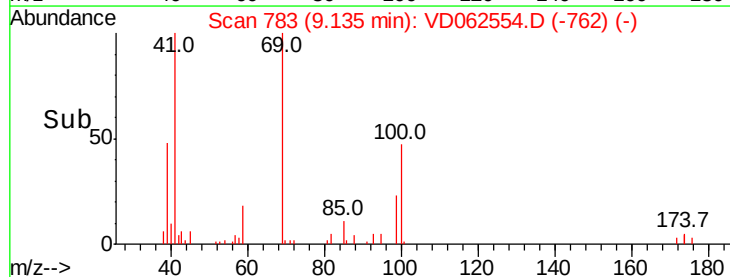
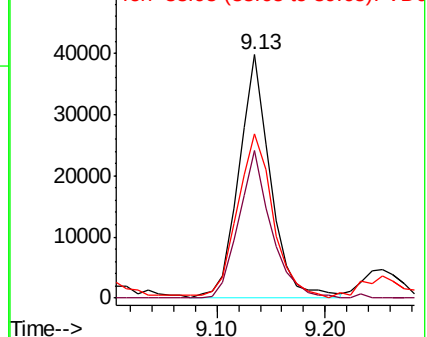
41 100

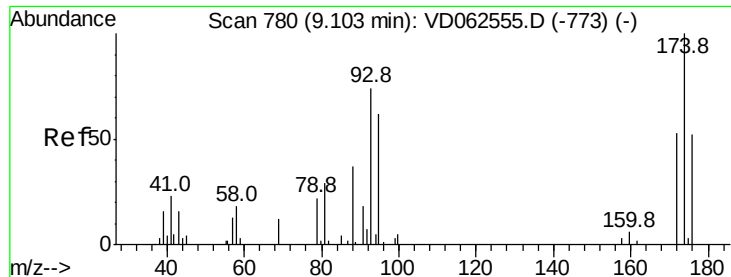
69 60.8 43.6 65.4

39 67.4 58.1 87.1



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: 376.642 ug/l

RT: 9.10 min Scan# 779

Delta R.T. -0.01 min

Lab File: VD062554.D

Acq: 30 May 2019 15:27

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

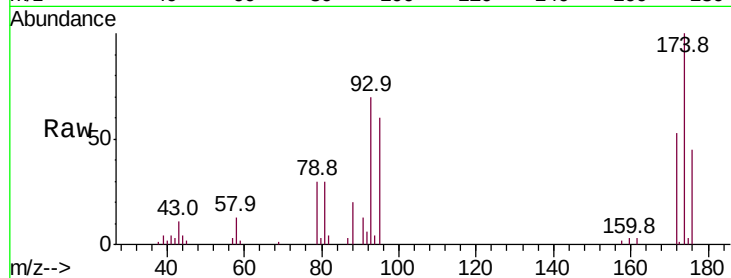
Tot Ion: 88 Resp: 13676

Ion Ratio Lower Upper

88 100

43 56.3 37.1 55.7#

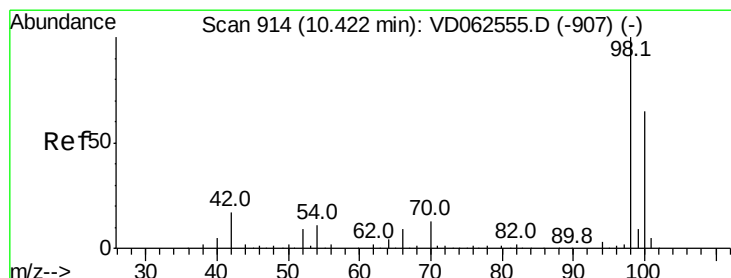
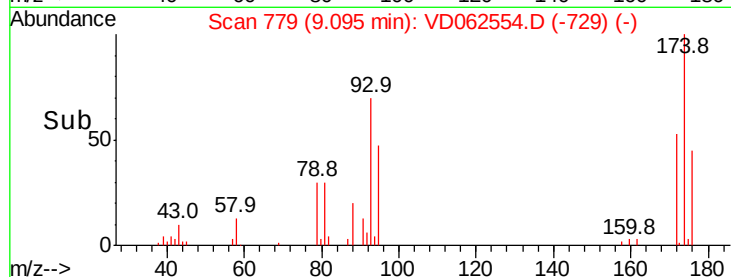
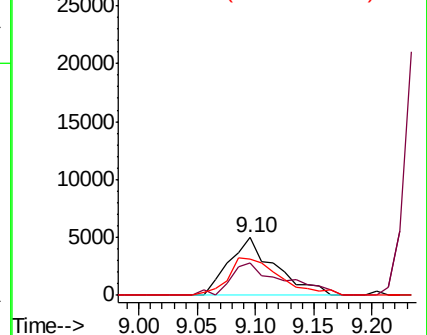
58 63.1 39.3 58.9#



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: 19.096 ug/l

RT: 10.41 min Scan# 913

Delta R.T. -0.01 min

Lab File: VD062554.D

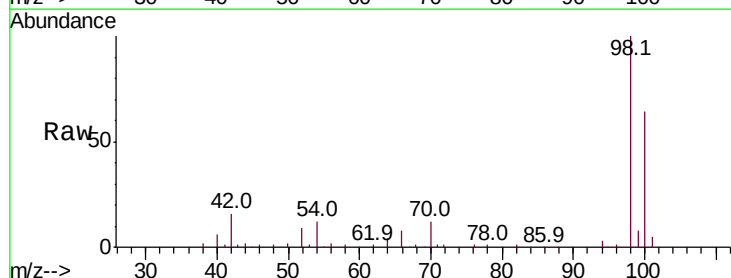
Acq: 30 May 2019 15:27

Tgt Ion: 98 Resp: 463596

Ion Ratio Lower Upper

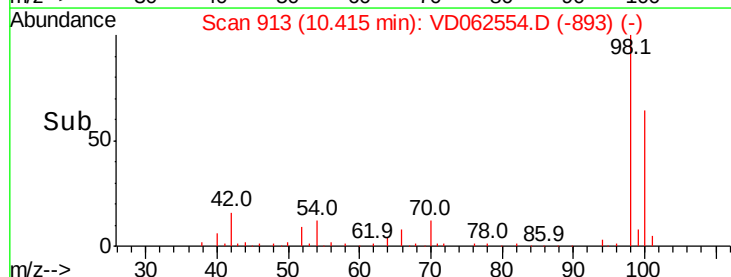
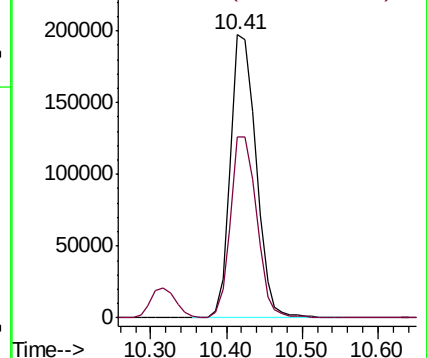
98 100

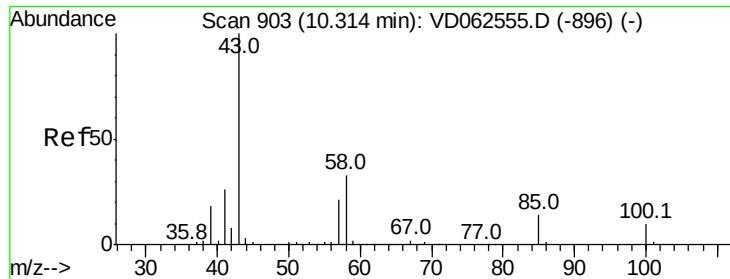
100 64.1 52.3 78.5



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

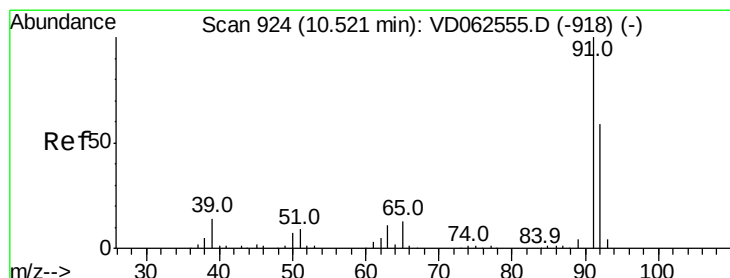
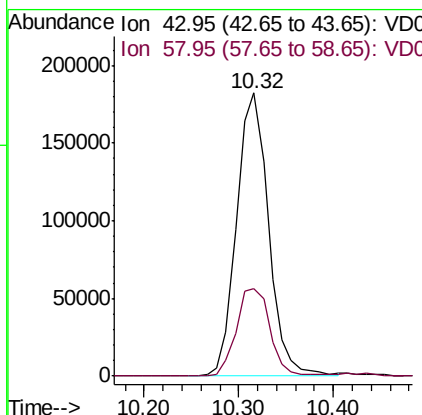
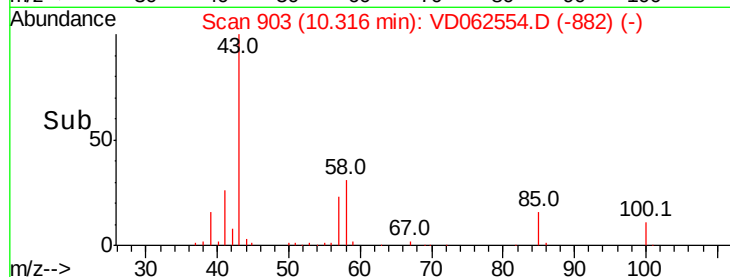
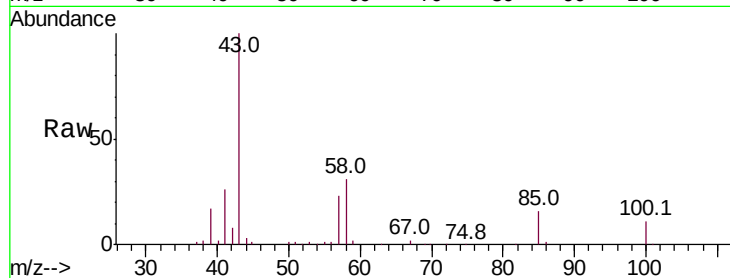




#51
4-Methyl-2-Pentanone
Concen: 92.715 ug/l
RT: 10.32 min Scan# 903
Delta R.T. 0.00 min
Lab File: VD062554.D
Acq: 30 May 2019 15:27

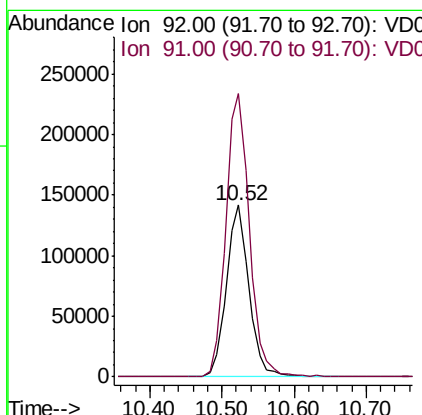
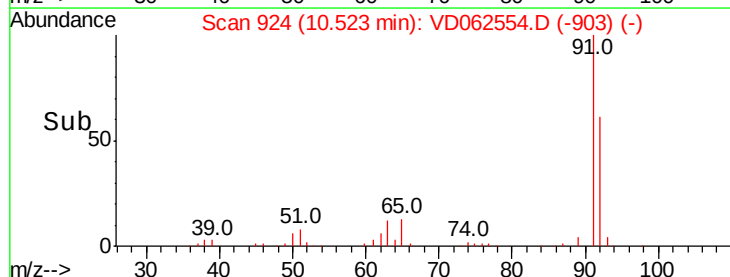
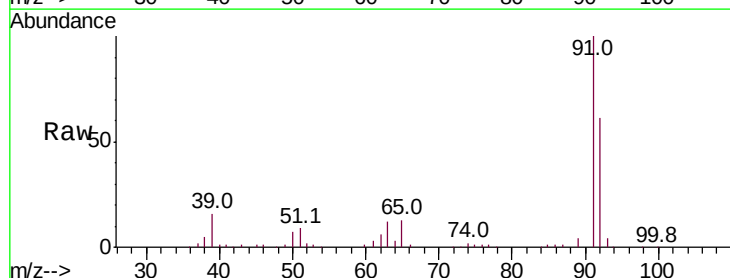
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

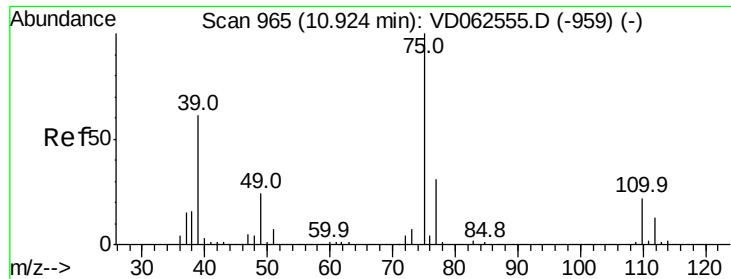
Tot Ion: 43 Resp: 426953
Ion Ratio Lower Upper
43 100
58 30.9 26.1 39.1



#52
Toluene
Concen: 18.761 ug/l
RT: 10.52 min Scan# 924
Delta R.T. 0.00 min
Lab File: VD062554.D
Acq: 30 May 2019 15:27

Tgt Ion: 92 Resp: 308249
Ion Ratio Lower Upper
92 100
91 164.9 135.5 203.3





#53

t-1,3-Dichloropropene

Concen: 18.247 ug/l

RT: 10.93 min Scan# 965

Delta R.T. 0.00 min

Lab File: VD062554.D

Acq: 30 May 2019 15:27

Instrument :

MSVOA_D

ClientSampleId :

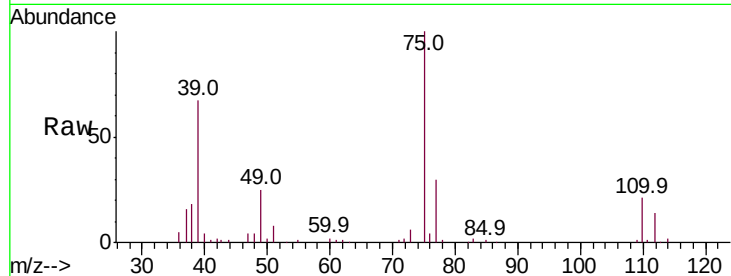
VSTDIC020

Tot Ion: 75 Resp: 214416

Ion Ratio Lower Upper

75 100

77 30.2 24.5 36.7



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

10.93

120000

100000

80000

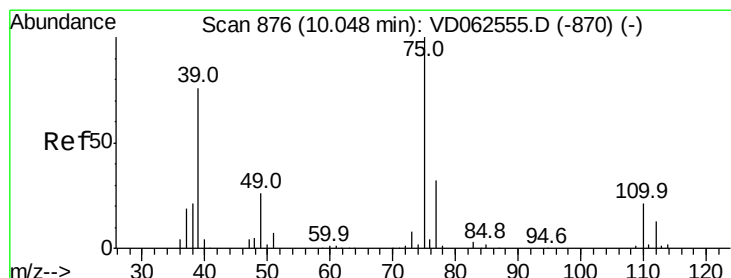
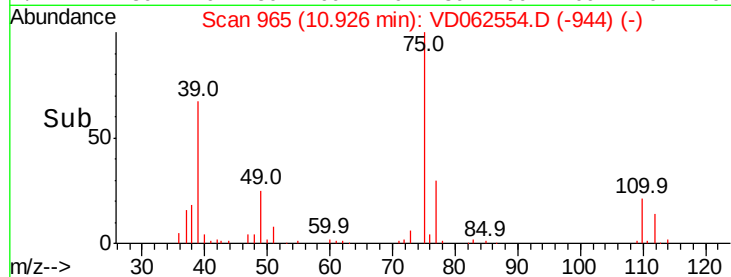
60000

40000

20000

0

Time--> 10.80 10.90 11.00



#54

cis-1,3-Dichloropropene

Concen: 18.928 ug/l

RT: 10.05 min Scan# 876

Delta R.T. 0.00 min

Lab File: VD062554.D

Acq: 30 May 2019 15:27

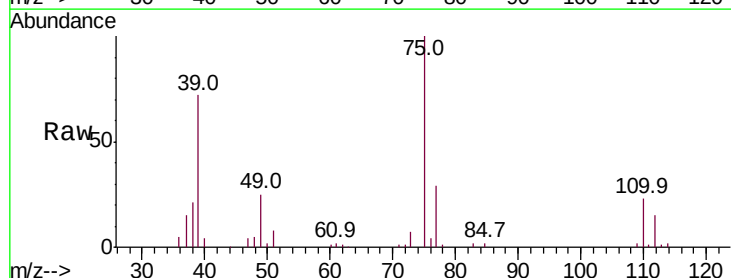
Tgt Ion: 75 Resp: 229907

Ion Ratio Lower Upper

75 100

77 29.0 25.7 38.5

39 72.3 61.0 91.6



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

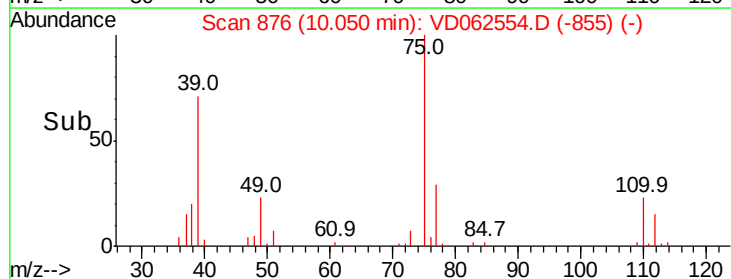
10.05

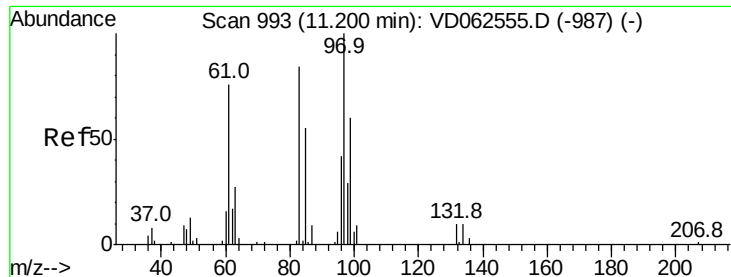
100000

50000

0

Time--> 10.00 10.10 10.20





#55

1,1,2-Trichloroethane

Concen: 19.443 ug/l

RT: 11.20 min Scan# 993

Delta R.T. 0.00 min

Lab File: VD062554.D

Acq: 30 May 2019 15:27

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 97 Resp: 106225

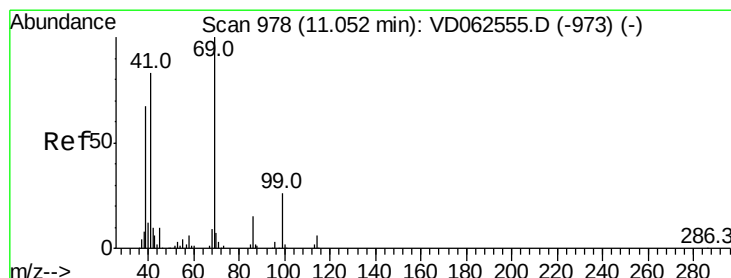
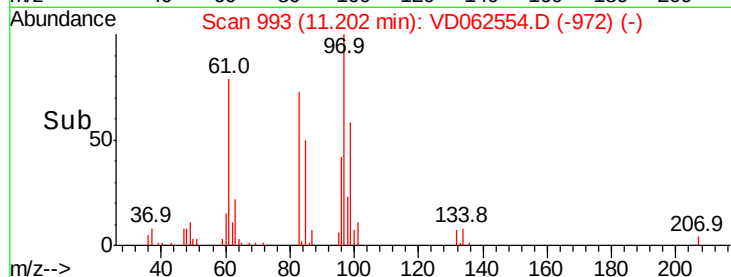
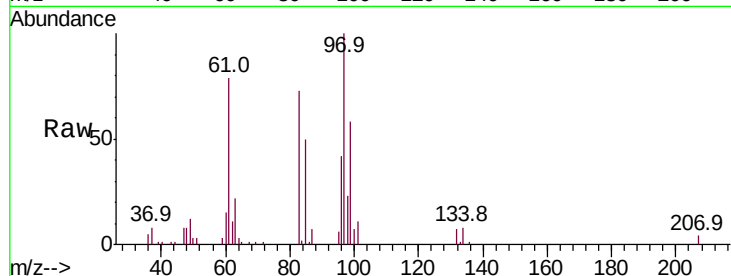
Ion	Ratio	Lower	Upper
97	100		
83	73.4	67.3	100.9
85	50.3	43.8	65.8
99	57.5	48.2	72.2

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: 19.293 ug/l

RT: 11.05 min Scan# 978

Delta R.T. 0.00 min

Lab File: VD062554.D

Acq: 30 May 2019 15:27

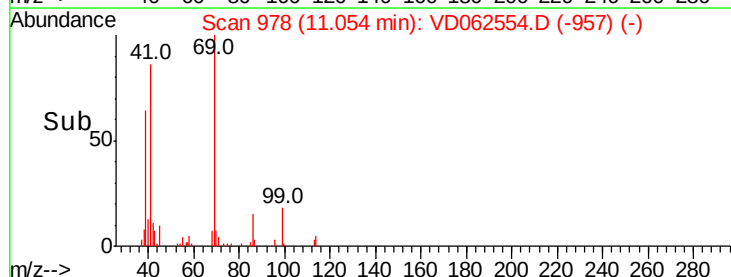
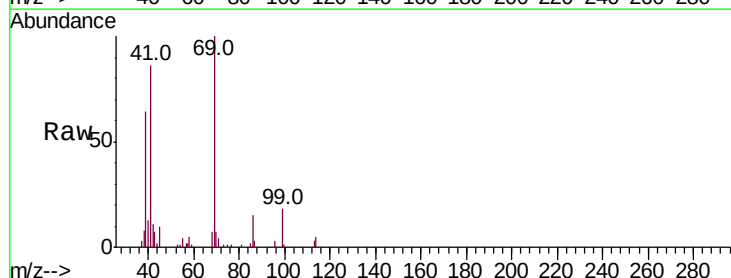
Tgt Ion: 69 Resp: 111486

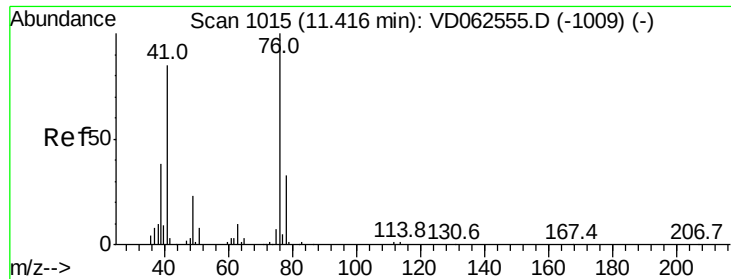
Ion	Ratio	Lower	Upper
69	100		
41	85.6	66.1	99.1
39	64.3	54.2	81.2

Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC





#57

1,3-Dichloropropane

Concen: 17.672 ug/l

RT: 11.42 min Scan# 1015

Delta R.T. 0.00 min

Lab File: VD062554.D

Acq: 30 May 2019 15:27

Instrument :

MSVOA_D

ClientSampleId :

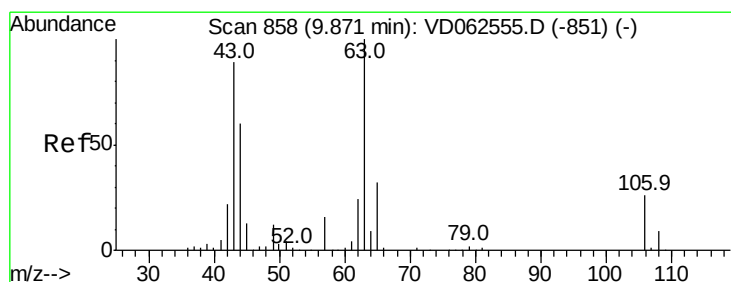
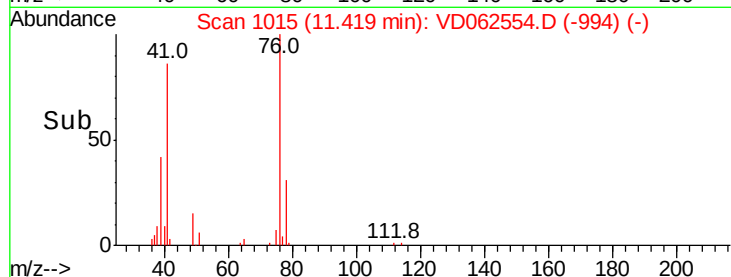
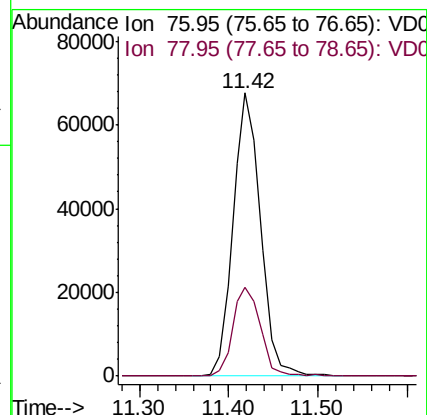
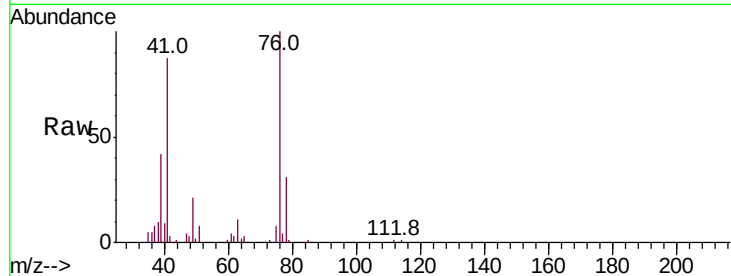
VSTDIC020

Tot Ion: 76 Resp: 146241

Ion Ratio Lower Upper

76 100

78 31.4 26.7 40.1



#58

2-Chloroethyl Vinyl ether

Concen: 108.697 ug/l

RT: 9.87 min Scan# 858

Delta R.T. 0.00 min

Lab File: VD062554.D

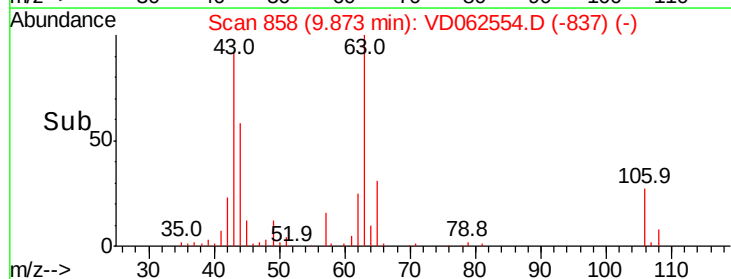
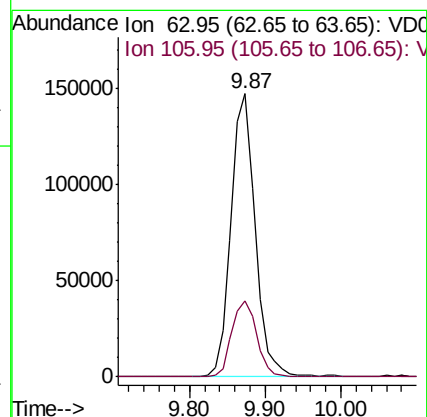
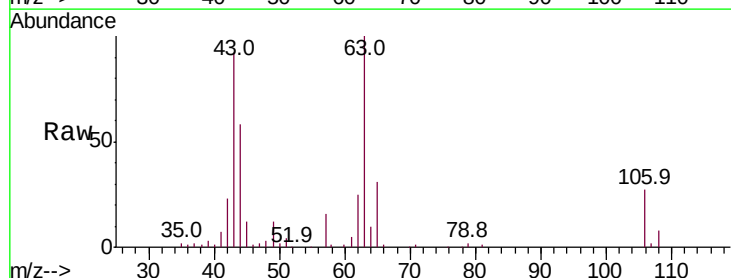
Acq: 30 May 2019 15:27

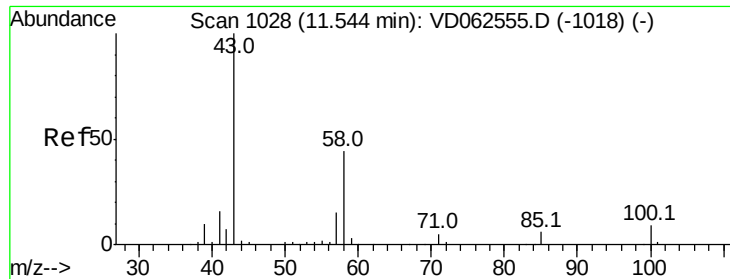
Tgt Ion: 63 Resp: 325560

Ion Ratio Lower Upper

63 100

106 26.8 21.0 31.4

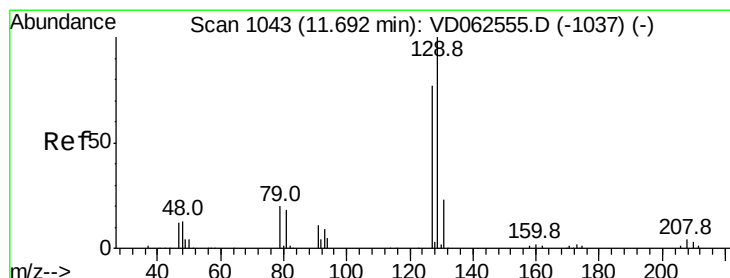
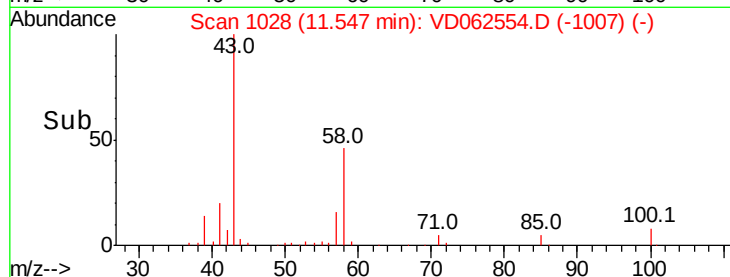
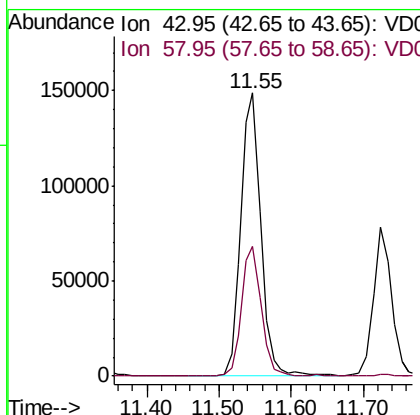
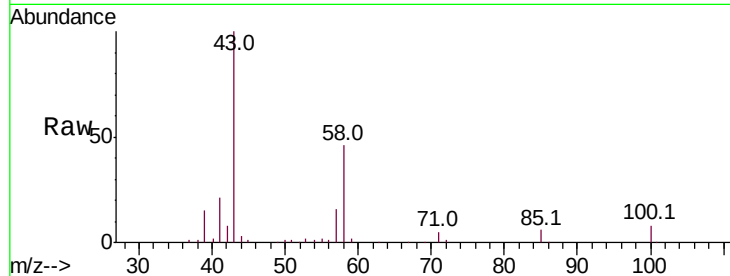




#59
2-Hexanone
Concen: 90.324 ug/l
RT: 11.55 min Scan# 1028
Delta R.T. 0.00 min
Lab File: VD062554.D
Acq: 30 May 2019 15:27

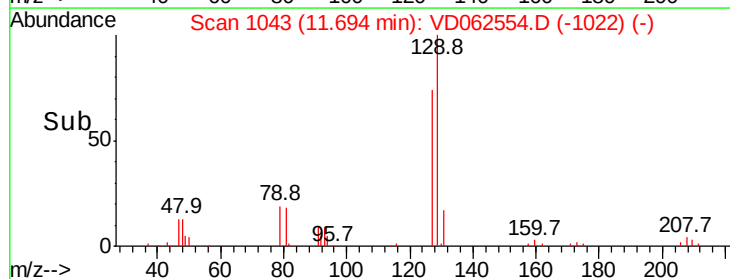
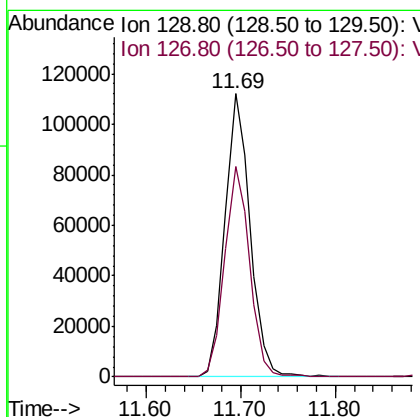
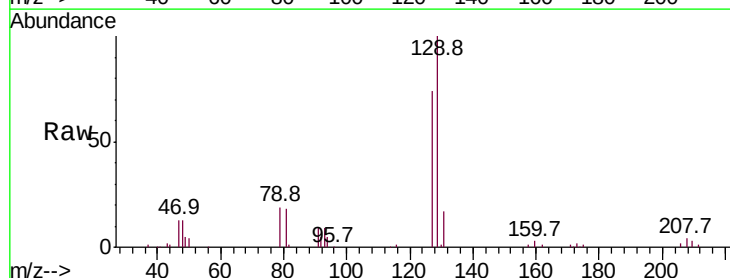
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

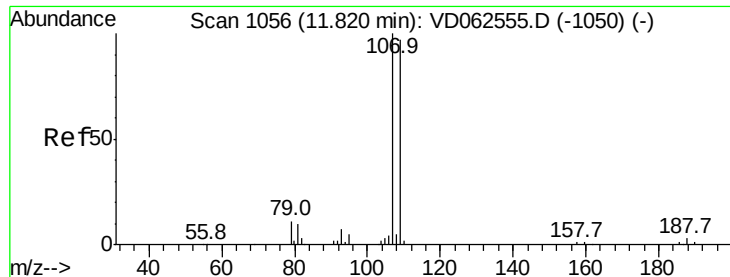
Tot Ion: 43 Resp: 290616
Ion Ratio Lower Upper
43 100
58 45.9 22.0 66.0



#60
Dibromochloromethane
Concen: 19.338 ug/l
RT: 11.69 min Scan# 1043
Delta R.T. 0.00 min
Lab File: VD062554.D
Acq: 30 May 2019 15:27

Tgt Ion: 129 Resp: 204966
Ion Ratio Lower Upper
129 100
127 74.2 38.6 115.8

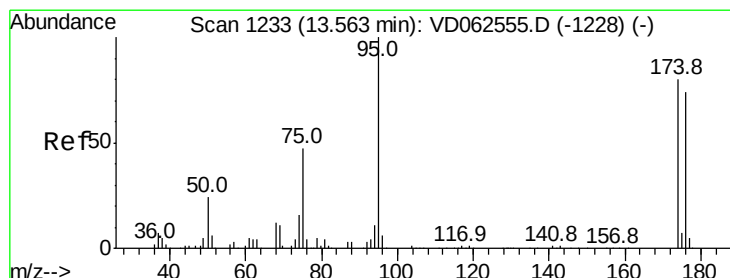
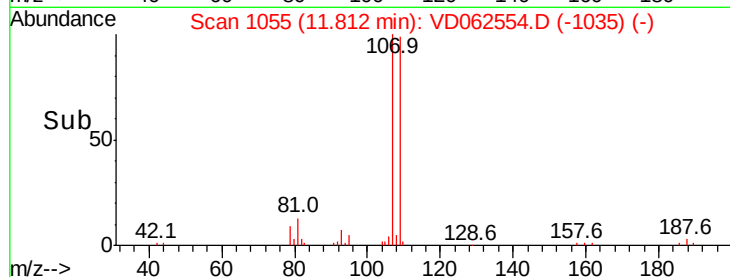
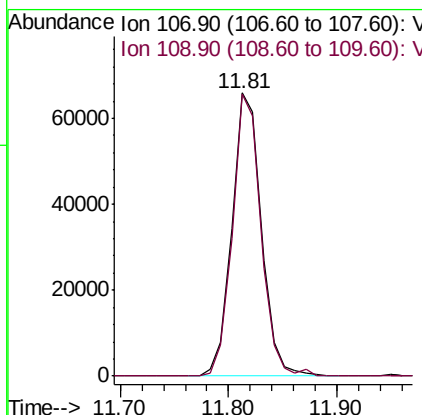
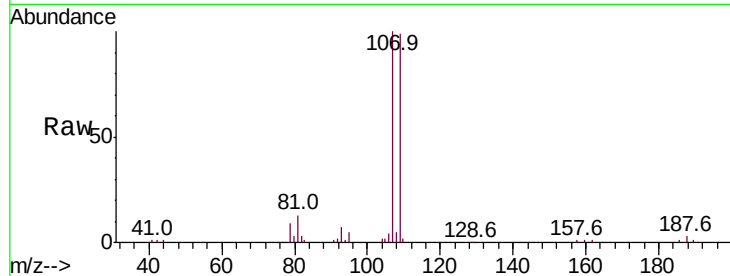




#61
 1,2-Dibromoethane
 Concen: 19.253 ug/l
 RT: 11.81 min Scan# 1055
 Delta R.T. -0.01 min
 Lab File: VD062554.D
 Acq: 30 May 2019 15:27

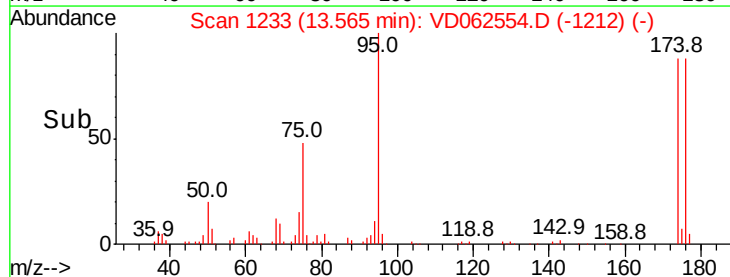
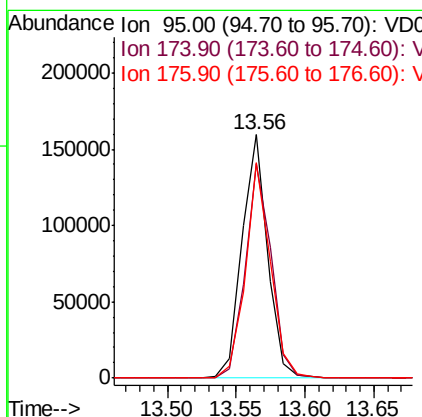
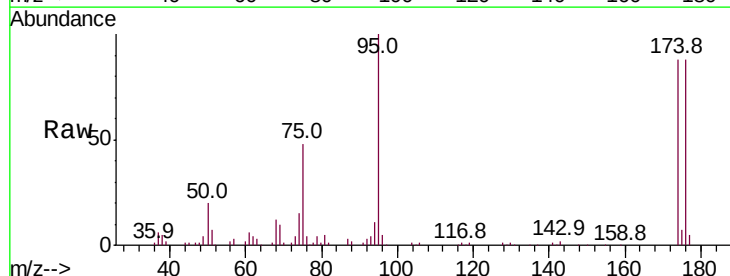
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

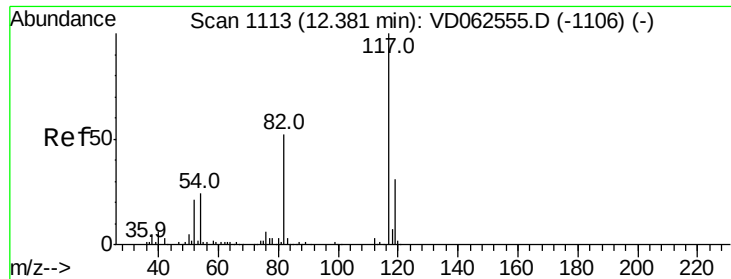
Tot Ion:107 Resp: 124476
 Ion Ratio Lower Upper
 107 100
 109 99.4 77.3 115.9



#62
 4-Bromofluorobenzene
 Concen: 19.011 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. 0.00 min
 Lab File: VD062554.D
 Acq: 30 May 2019 15:27

Tgt Ion: 95 Resp: 206931
 Ion Ratio Lower Upper
 95 100
 174 87.8 0.0 160.2
 176 88.4 0.0 148.0

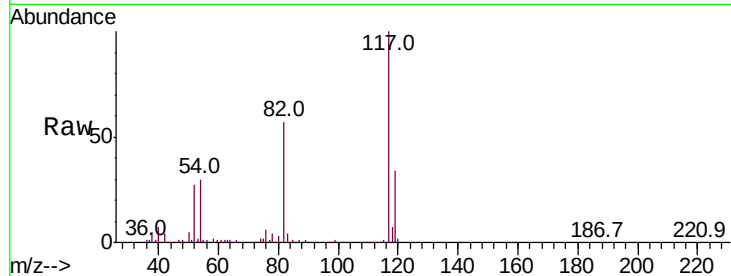




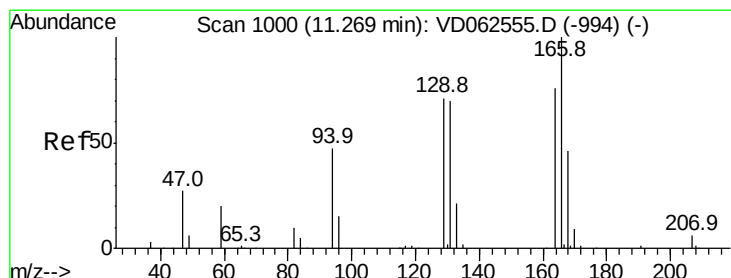
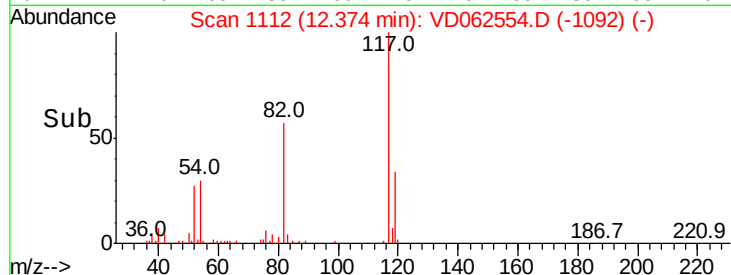
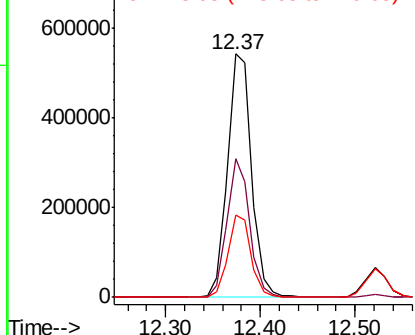
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. -0.01 min
Lab File: VD062554.D
Acq: 30 May 2019 15:27

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion:117 Resp: 952298
Ion Ratio Lower Upper
117 100
82 57.1 41.4 62.2
119 34.0 24.9 37.3

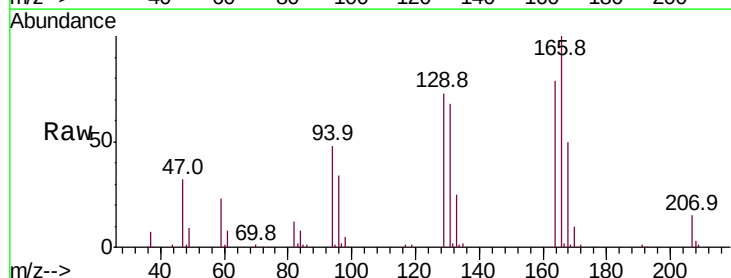


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

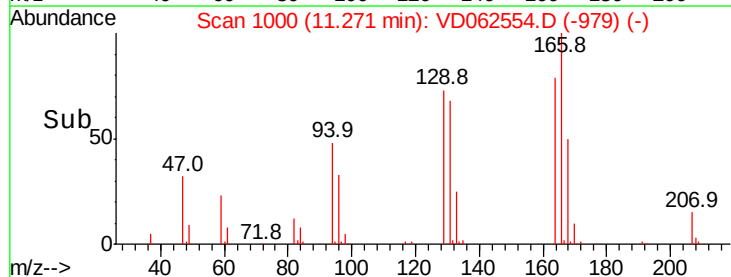
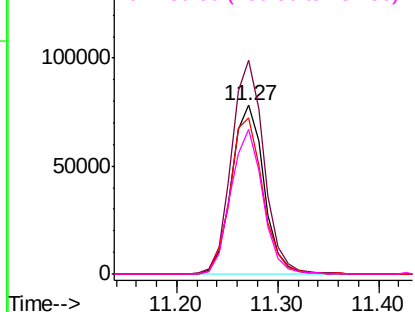


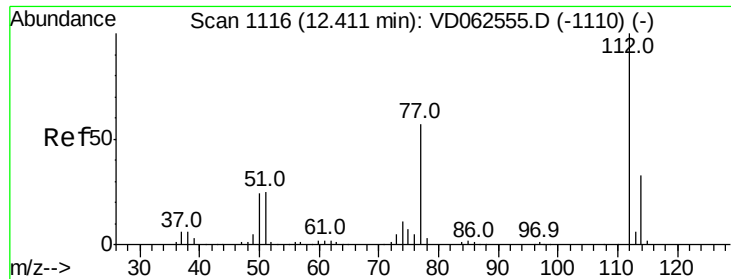
#64
Tetrachloroethene
Concen: 20.144 ug/l
RT: 11.27 min Scan# 1000
Delta R.T. 0.00 min
Lab File: VD062554.D
Acq: 30 May 2019 15:27

Tgt Ion:164 Resp: 173610
Ion Ratio Lower Upper
164 100
166 126.6 105.3 157.9
129 92.4 75.3 112.9
131 85.9 73.3 109.9



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

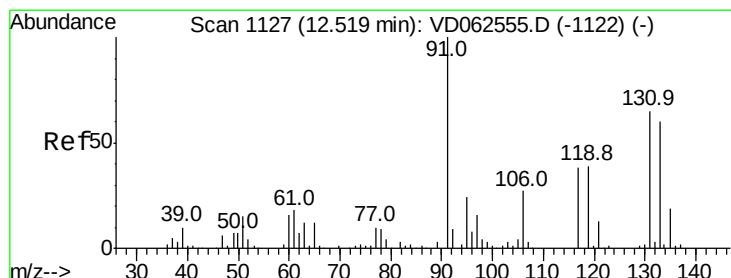
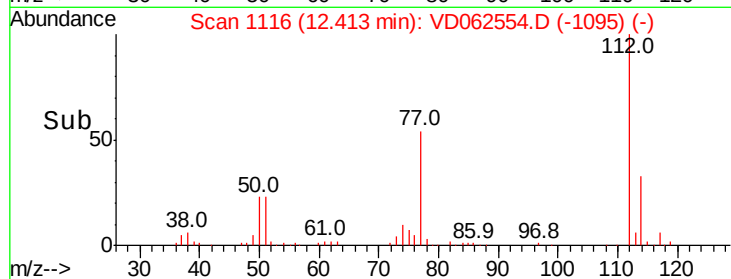
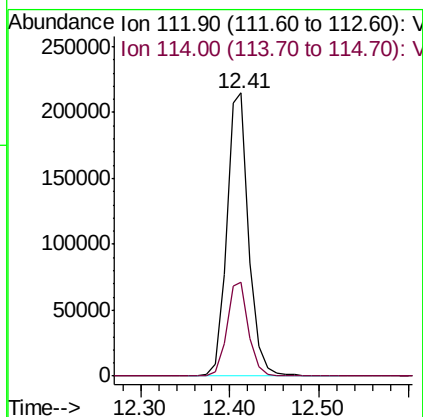
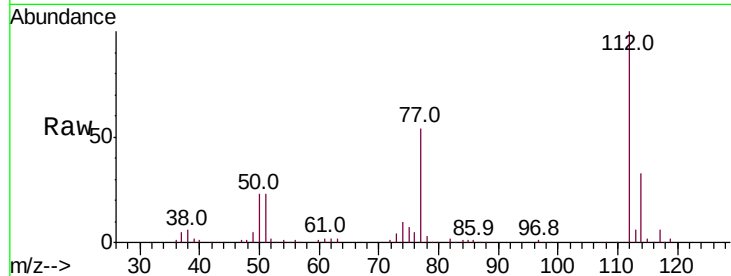




#65
Chlorobenzene
Concen: 19.320 ug/l
RT: 12.41 min Scan# 1116
Delta R.T. 0.00 min
Lab File: VD062554.D
Acq: 30 May 2019 15:27

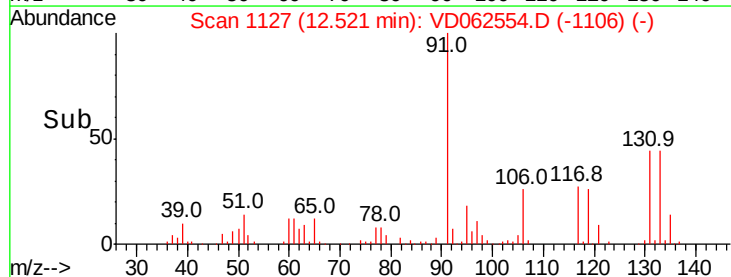
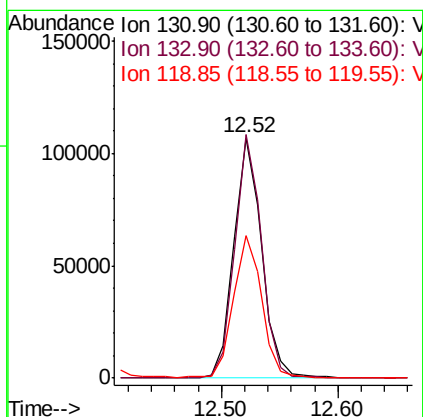
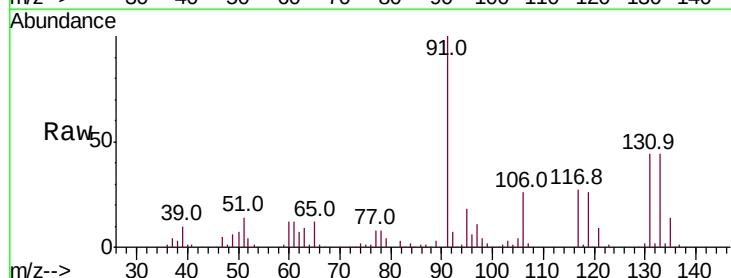
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

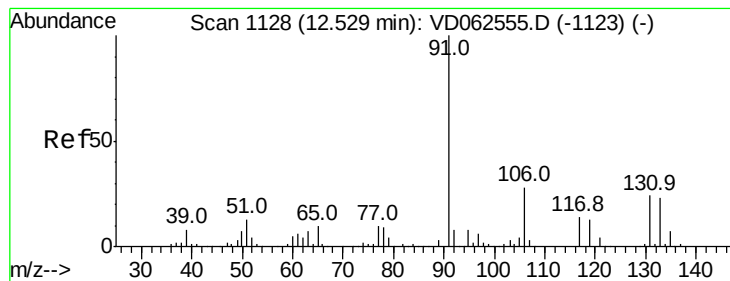
Tot Ion:112 Resp: 372044
Ion Ratio Lower Upper
112 100
114 33.1 26.6 39.8



#66
1,1,1,2-Tetrachloroethane
Concen: 19.667 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. 0.00 min
Lab File: VD062554.D
Acq: 30 May 2019 15:27

Tgt Ion:131 Resp: 176987
Ion Ratio Lower Upper
131 100
133 101.5 46.2 138.6
119 59.3 29.5 88.6





#67

Ethyl Benzene

Concen: 19.954 ug/l

RT: 12.53 min Scan# 1128

Delta R.T. 0.00 min

Lab File: VD062554.D

Acq: 30 May 2019 15:27

Instrument :

MSVOA_D

ClientSampleID :

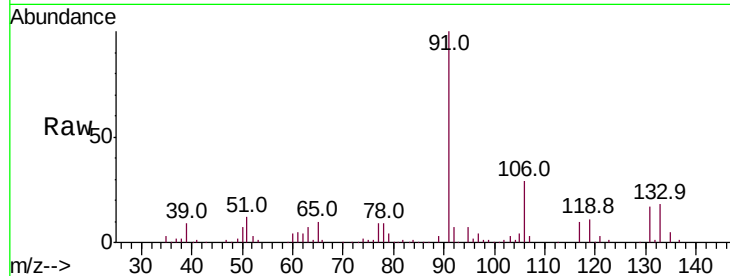
VSTDIC020

Tot Ion: 91 Resp: 692326

Ion Ratio Lower Upper

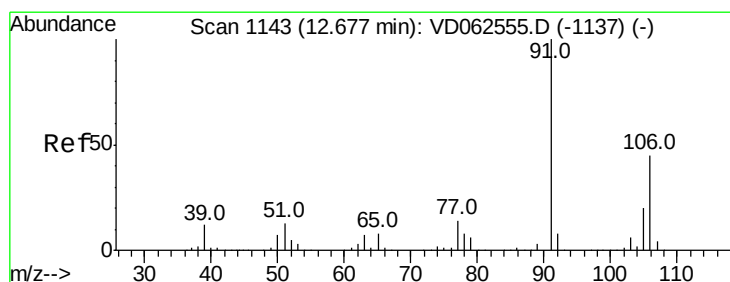
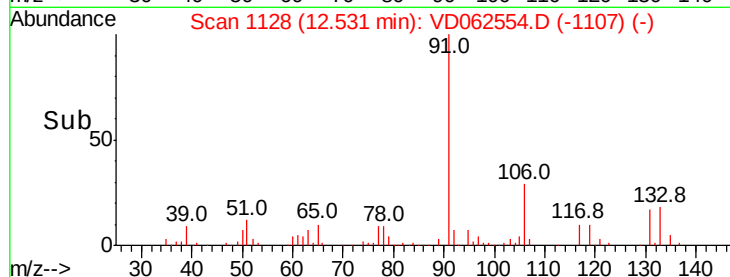
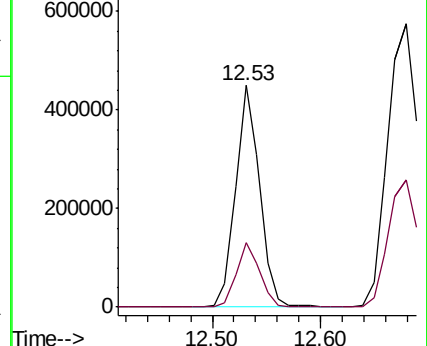
91 100

106 29.2 22.2 33.2



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 106.05 (105.75 to 106.75): VDC



#68

m/p-Xylenes

Concen: 42.048 ug/l

RT: 12.68 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VD062554.D

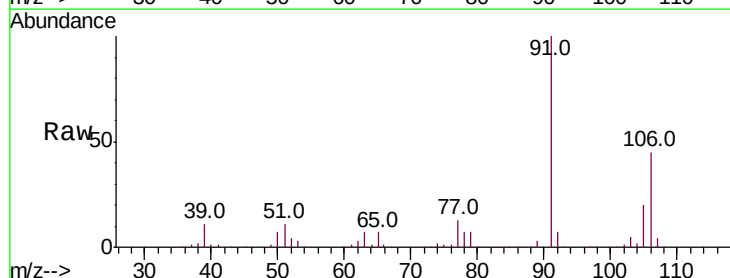
Acq: 30 May 2019 15:27

Tgt Ion:106 Resp: 495465

Ion Ratio Lower Upper

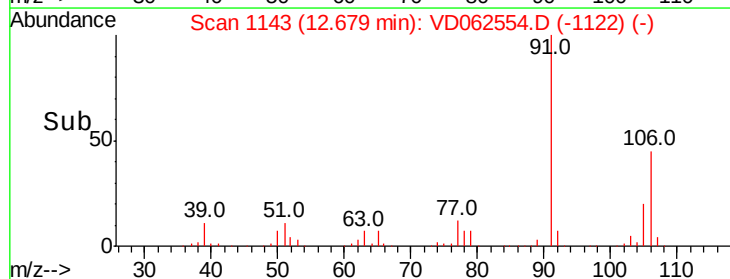
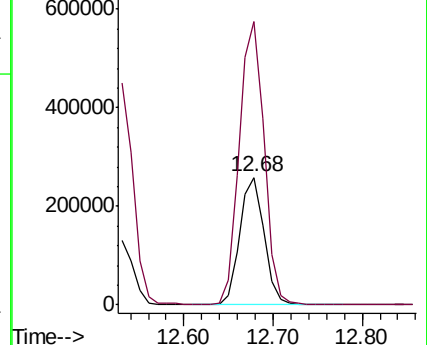
106 100

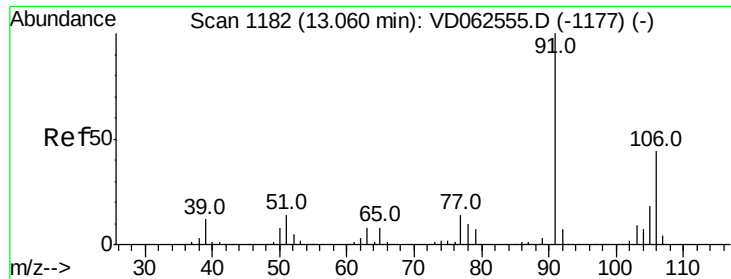
91 221.5 178.9 268.3



Abundance Ion 106.05 (105.75 to 106.75): VDC

Ion 91.00 (90.70 to 91.70): VDC

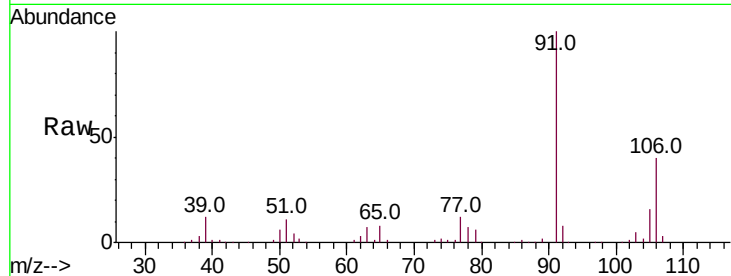




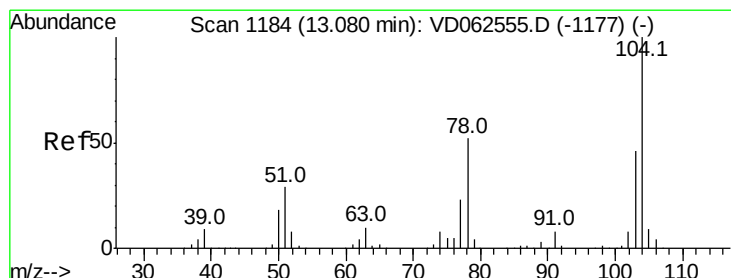
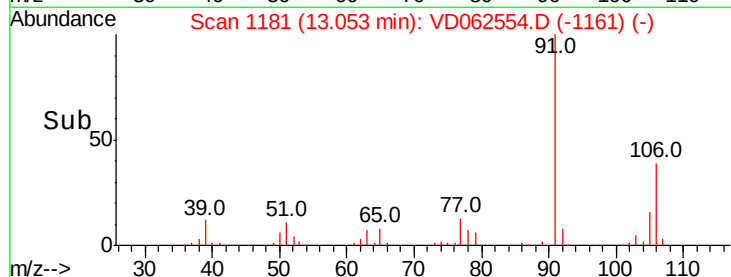
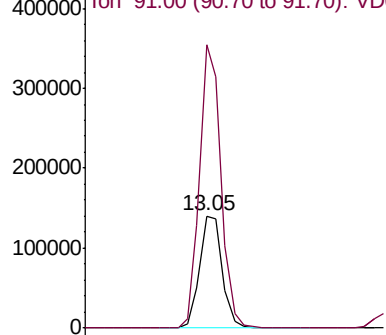
#69
o-Xylene
Concen: 20.209 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. -0.01 min
Lab File: VD062554.D
Acq: 30 May 2019 15:27

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion:106 Resp: 230748
Ion Ratio Lower Upper
106 100
91 253.1 113.9 341.8

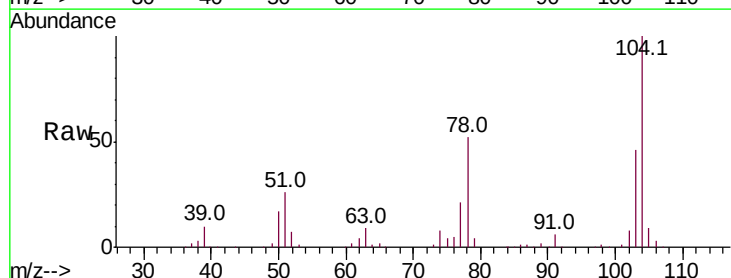


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

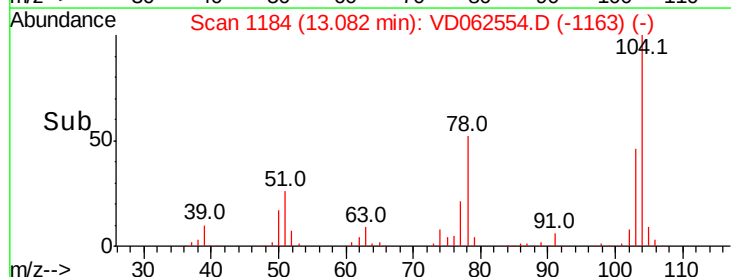
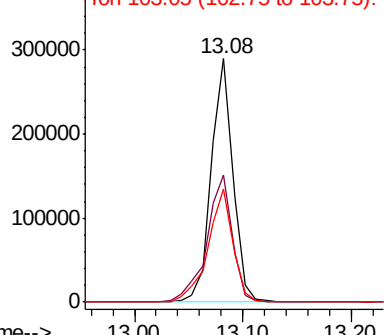


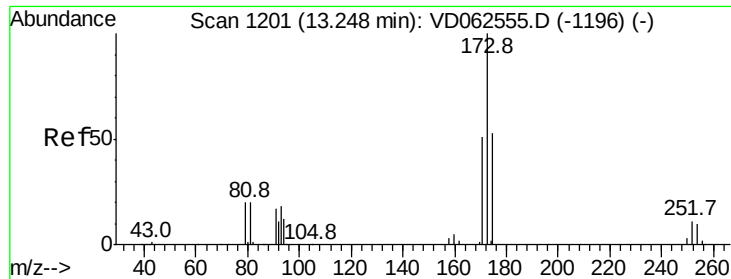
#70
Styrene
Concen: 20.920 ug/l
RT: 13.08 min Scan# 1184
Delta R.T. 0.00 min
Lab File: VD062554.D
Acq: 30 May 2019 15:27

Tgt Ion:104 Resp: 403808
Ion Ratio Lower Upper
104 100
78 52.0 41.5 62.3
103 46.2 36.6 55.0



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: 19.641 ug/l

RT: 13.24 min Scan# 1200

Delta R.T. -0.01 min

Lab File: VD062554.D

Acq: 30 May 2019 15:27

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

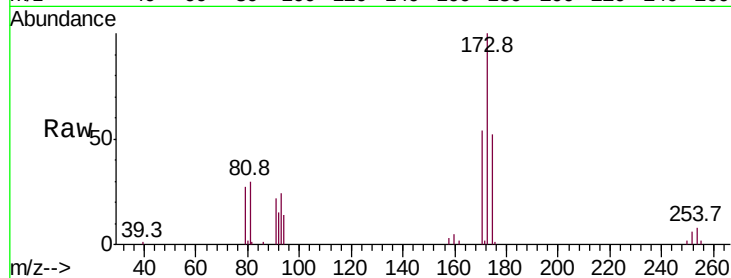
Tot Ion:173 Resp: 123057

Ion Ratio Lower Upper

173 100

175 51.8 26.6 79.7

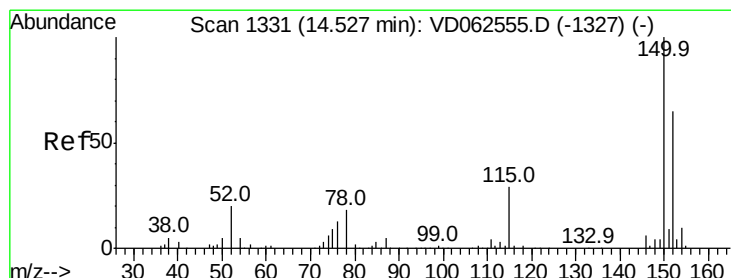
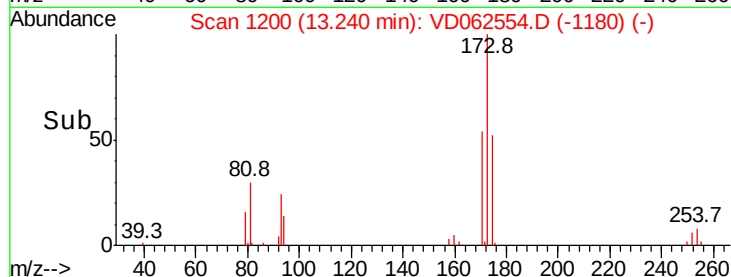
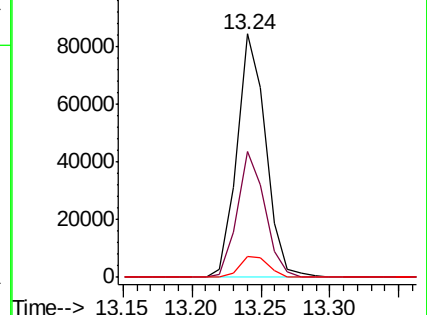
254 8.5 8.1 12.1



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: 14.53 min Scan# 1331

Delta R.T. 0.00 min

Lab File: VD062554.D

Acq: 30 May 2019 15:27

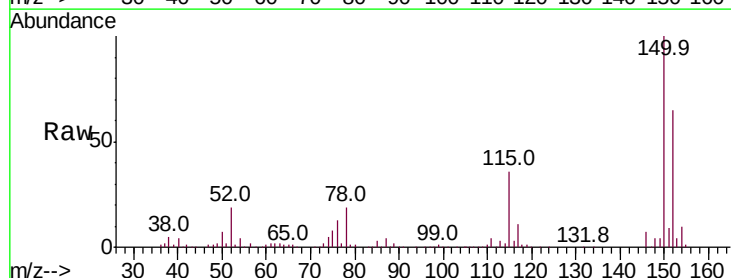
Tgt Ion:152 Resp: 530220

Ion Ratio Lower Upper

152 100

115 55.2 28.4 85.3

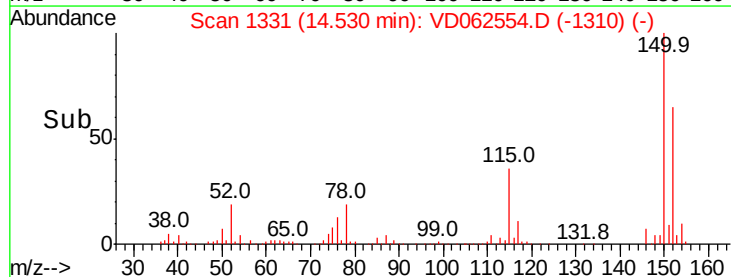
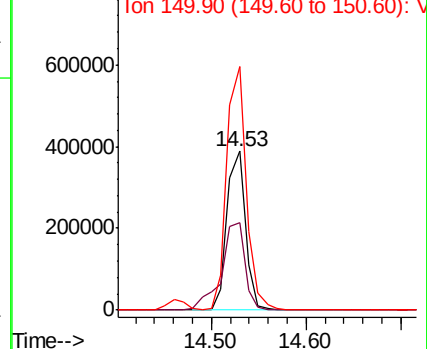
150 153.1 0.0 310.4

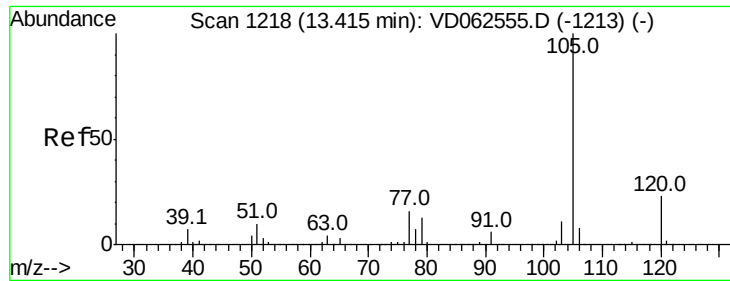


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 20.544 ug/l

RT: 13.41 min Scan# 1217

Delta R.T. -0.01 min

Lab File: VD062554.D

Acq: 30 May 2019 15:27

Instrument :

MSVOA_D

ClientSampleId :

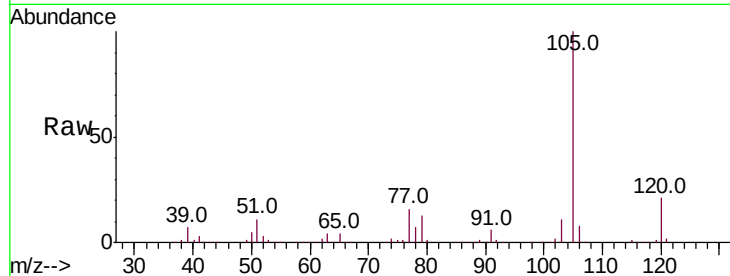
VSTDIC020

Tot Ion:105 Resp: 724260

Ion Ratio Lower Upper

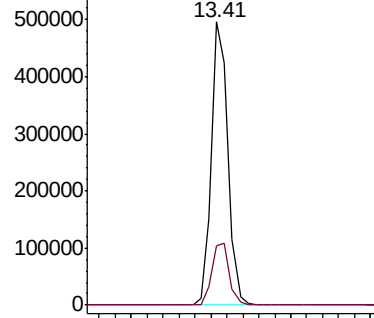
105 100

120 20.8 11.6 34.8

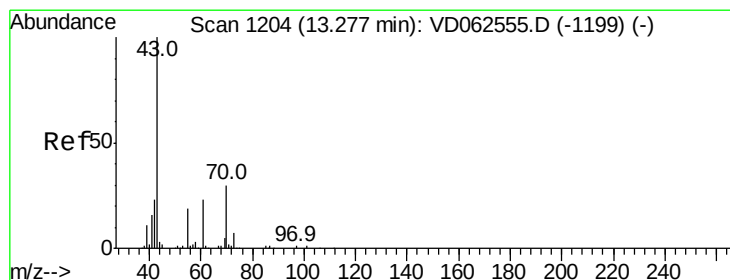
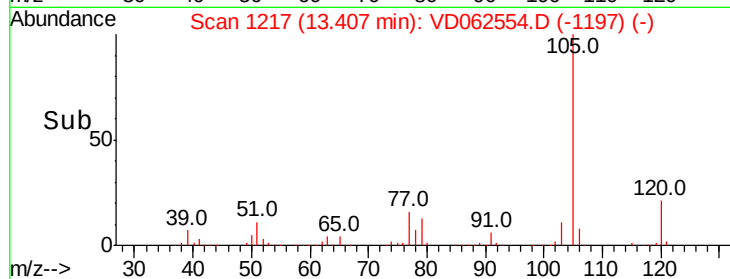


Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



Time-->



#74

N-ethyl acetate

Concen: 19.464 ug/l

RT: 13.27 min Scan# 1203

Delta R.T. -0.01 min

Lab File: VD062554.D

Acq: 30 May 2019 15:27

Tgt Ion: 43 Resp: 176289

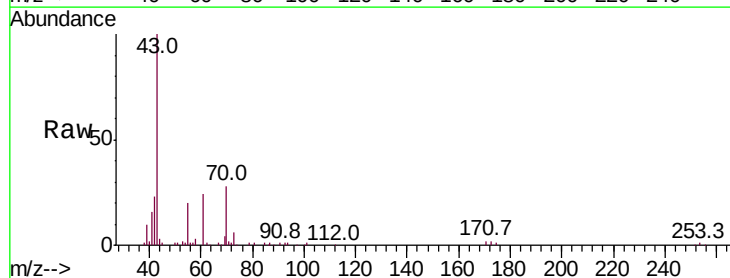
Ion Ratio Lower Upper

43 100

70 27.6 23.7 35.5

55 19.6 15.0 22.4

61 24.1 18.4 27.6

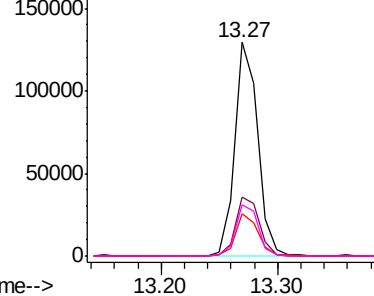


Abundance Ion 42.95 (42.65 to 43.65): VDC

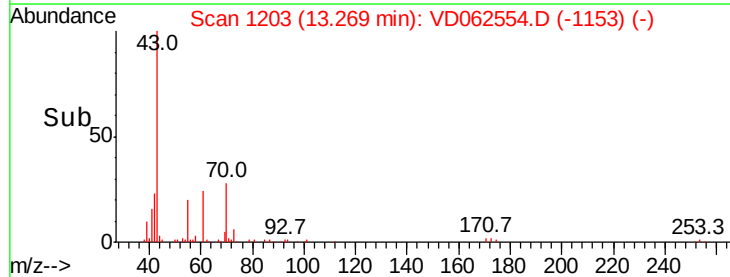
Ion 70.00 (69.70 to 70.70): VDC

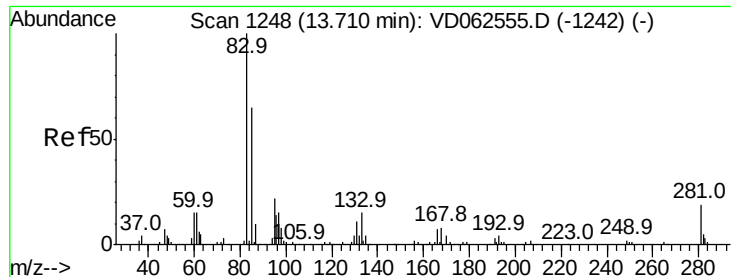
Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC



Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 19.585 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. -0.01 min

Lab File: VD062554.D

Acq: 30 May 2019 15:27

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

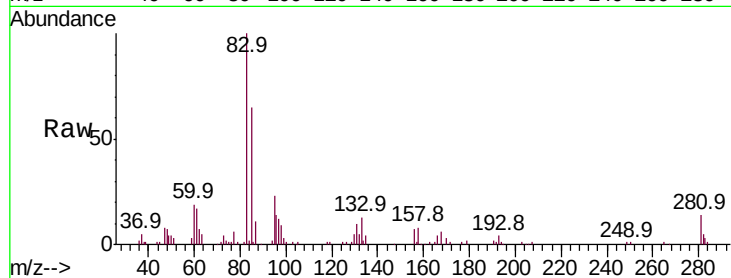
Tot Ion: 83 Resp: 113151

Ion Ratio Lower Upper

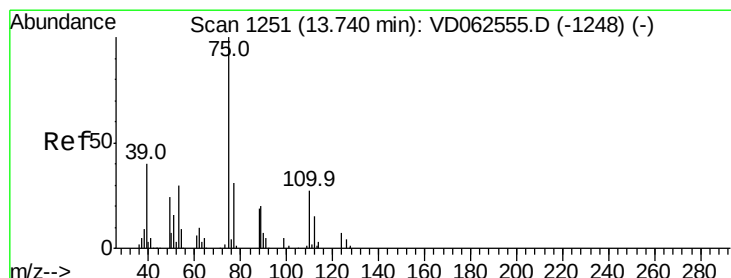
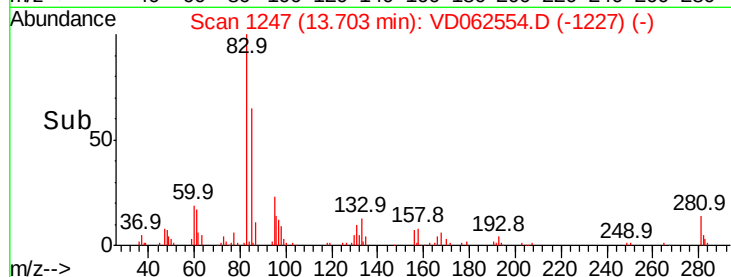
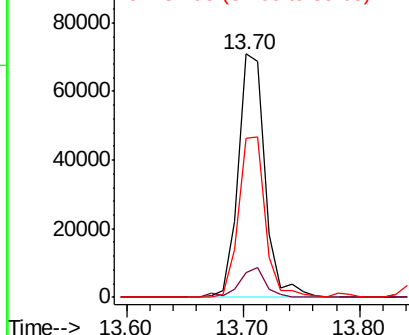
83 100

131 10.4 5.7 17.1

85 65.2 32.6 97.8



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: 18.880 ug/l

RT: 13.74 min Scan# 1251

Delta R.T. 0.00 min

Lab File: VD062554.D

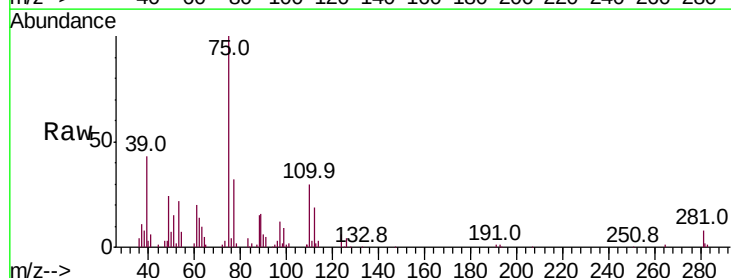
Acq: 30 May 2019 15:27

Tgt Ion: 75 Resp: 126396

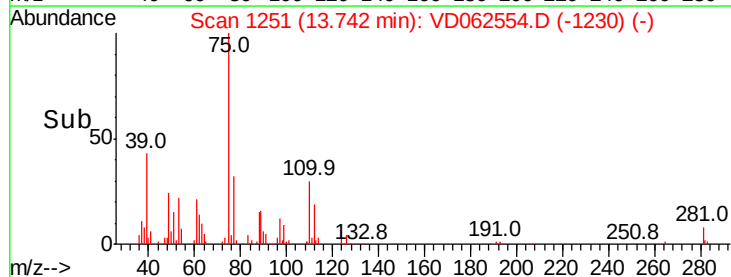
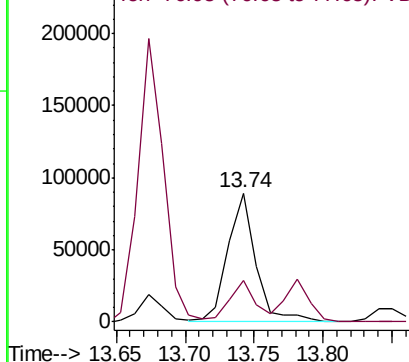
Ion Ratio Lower Upper

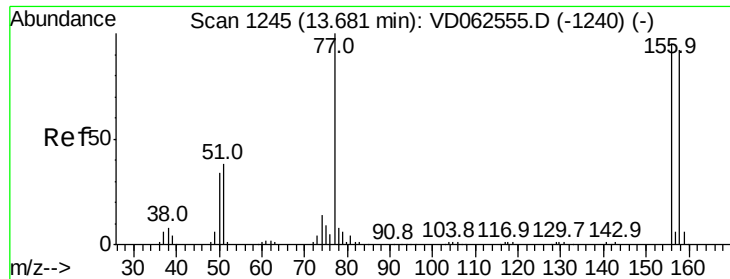
75 100

77 31.9 16.5 49.5



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 20.385 ug/l

RT: 13.68 min Scan# 1245

Delta R.T. 0.00 min

Lab File: VD062554.D

Acq: 30 May 2019 15:27

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

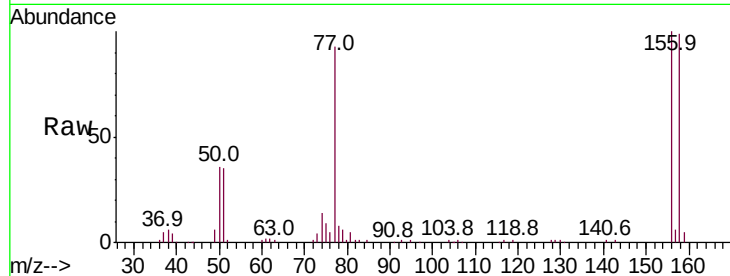
Tot Ion:156 Resp: 201169

Ion Ratio Lower Upper

156 100

77 93.4 52.9 158.7

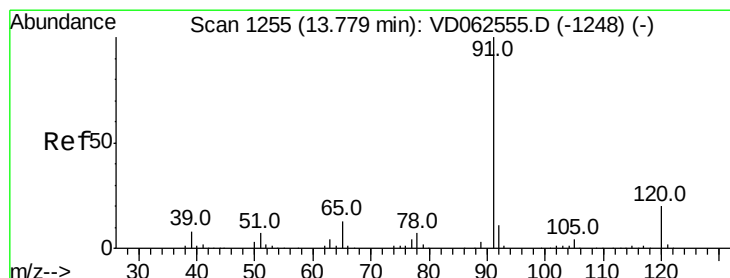
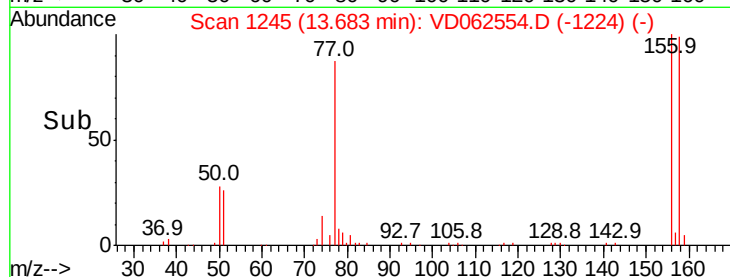
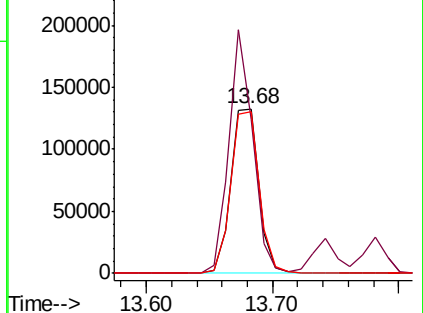
158 98.8 48.5 145.5



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 20.133 ug/l

RT: 13.78 min Scan# 1255

Delta R.T. 0.00 min

Lab File: VD062554.D

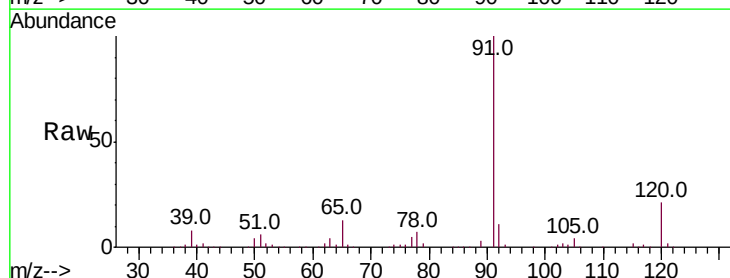
Acq: 30 May 2019 15:27

Tgt Ion: 91 Resp: 827098

Ion Ratio Lower Upper

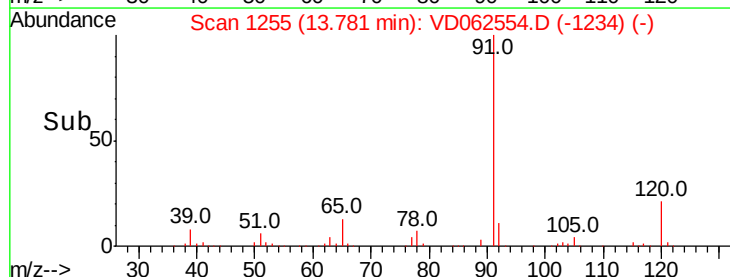
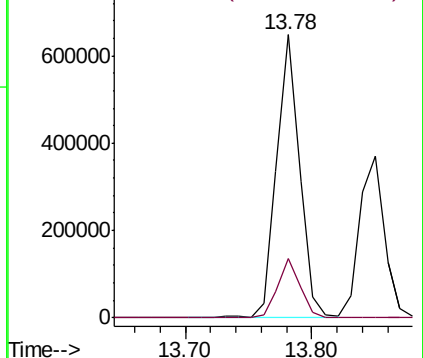
91 100

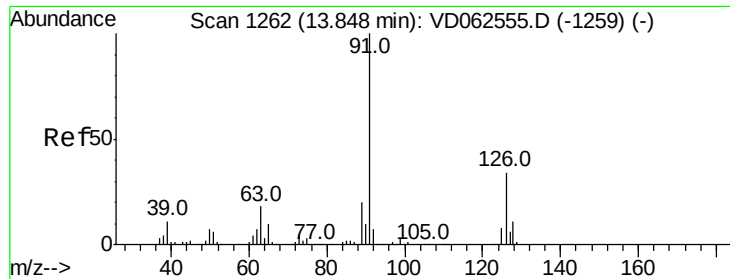
120 21.0 10.0 29.8



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 21.191 ug/l

RT: 13.85 min Scan# 1262

Delta R.T. 0.00 min

Lab File: VD062554.D

Acq: 30 May 2019 15:27

Instrument :

MSVOA_D

ClientSampleId :

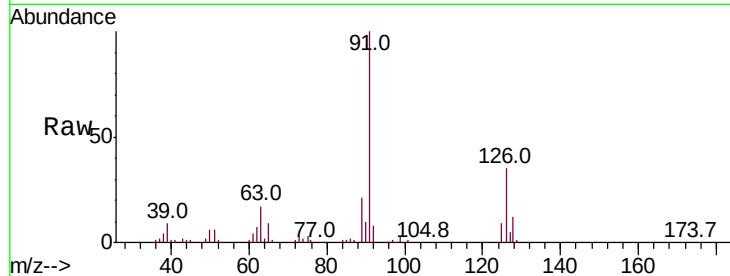
VSTDIC020

Tot Ion: 91 Resp: 509679

Ion Ratio Lower Upper

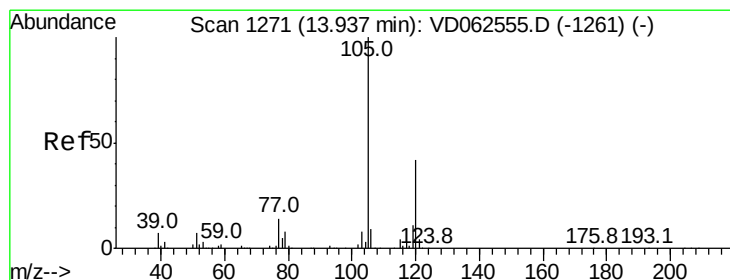
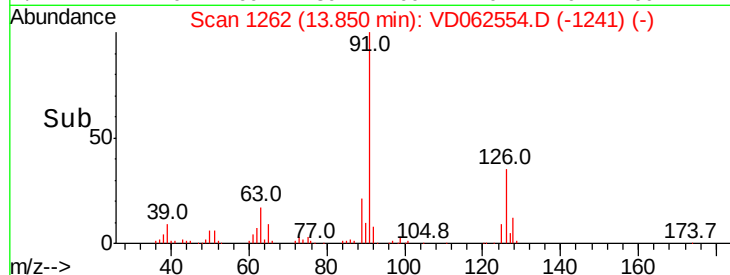
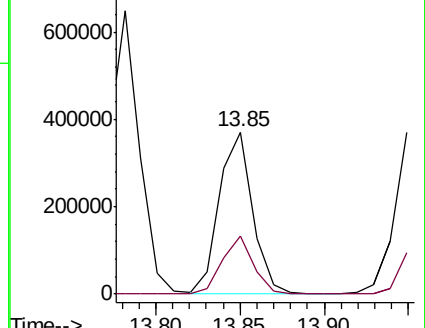
91 100

126 35.5 16.7 50.1



Abundance Ion 91.00 (90.70 to 91.70): VD062555.D (-1259) (-)

Ion 125.95 (125.65 to 126.65): VD062555.D (-1259) (-)



#80

1,3,5-Trimethylbenzene

Concen: 20.853 ug/l

RT: 13.94 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VD062554.D

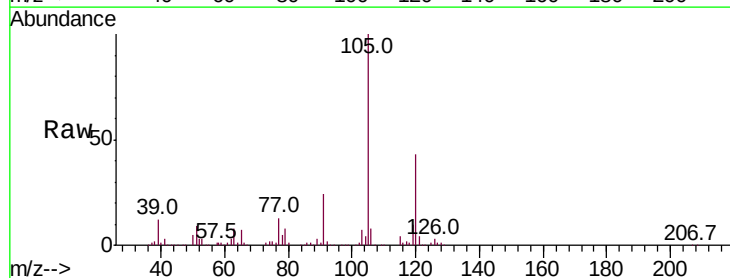
Acq: 30 May 2019 15:27

Tgt Ion:105 Resp: 637654

Ion Ratio Lower Upper

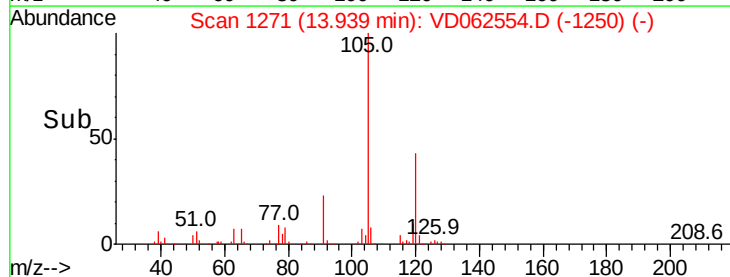
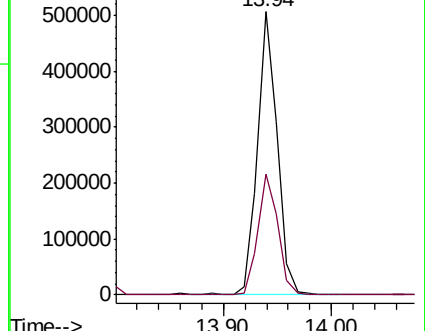
105 100

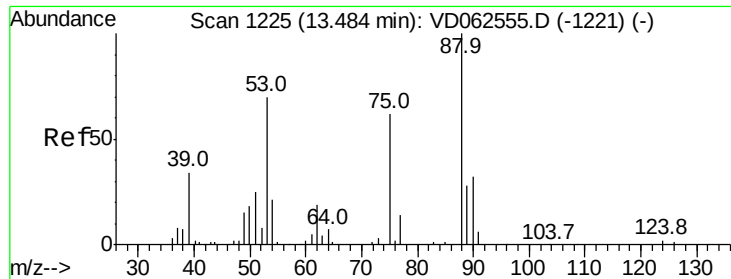
120 42.7 20.8 62.5



Abundance Ion 105.05 (104.75 to 105.75): VD062555.D (-1261) (-)

Ion 120.05 (119.75 to 120.75): VD062555.D (-1261) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 18.748 ug/l

RT: 13.48 min Scan# 1224

Delta R.T. -0.01 min

Lab File: VD062554.D

Acq: 30 May 2019 15:27

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

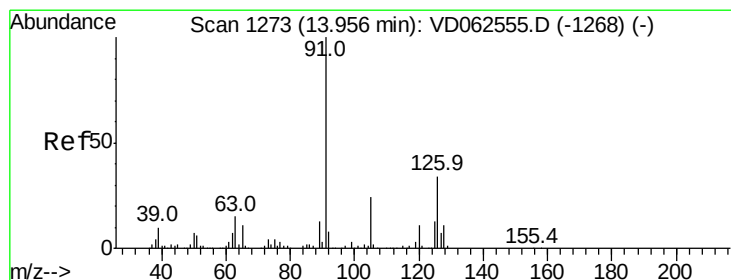
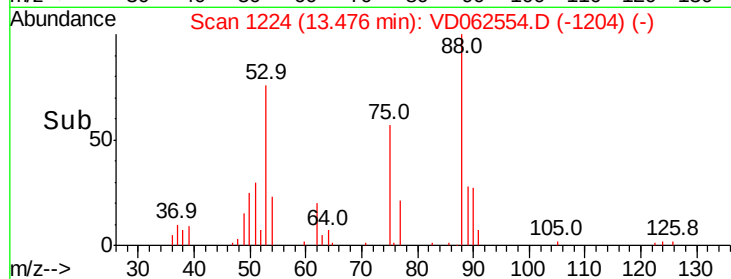
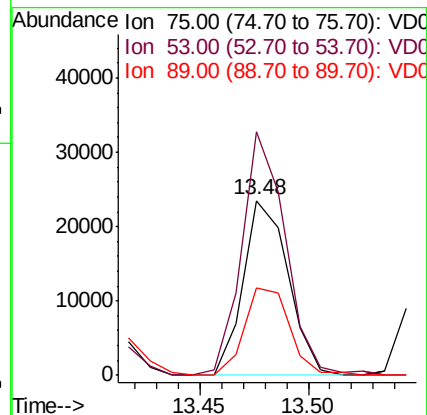
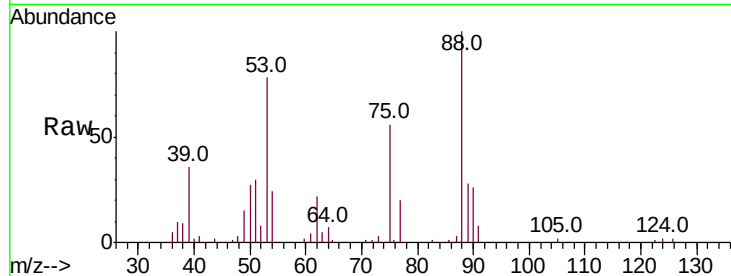
Tot Ion: 75 Resp: 33956

Ion Ratio Lower Upper

75 100

53 139.5 91.0 136.4#

89 49.9 36.9 55.3



#82

4-Chlorotoluene

Concen: 20.094 ug/l

RT: 13.95 min Scan# 1272

Delta R.T. -0.01 min

Lab File: VD062554.D

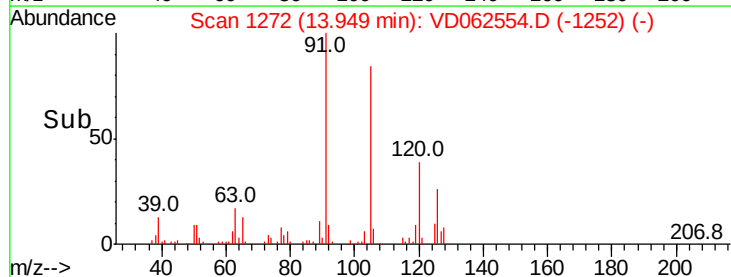
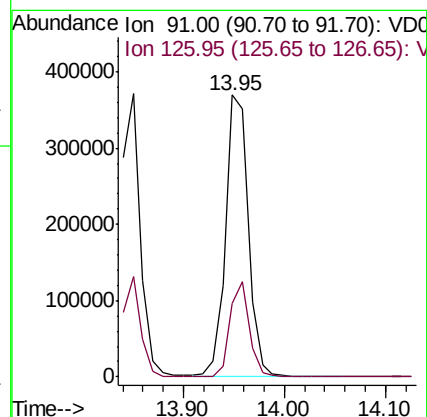
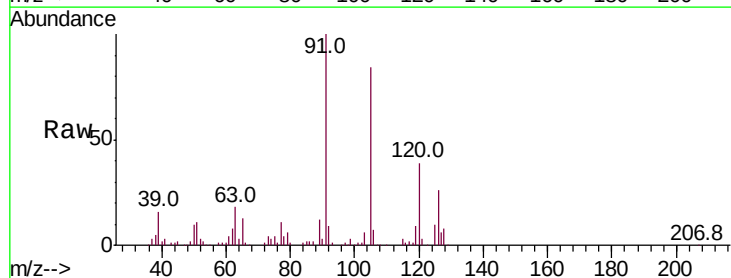
Acq: 30 May 2019 15:27

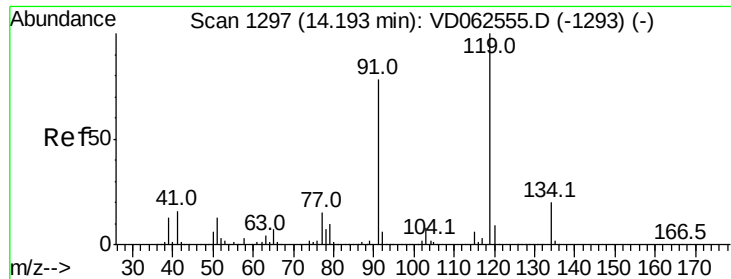
Tgt Ion: 91 Resp: 581173

Ion Ratio Lower Upper

91 100

126 26.0 16.9 50.7

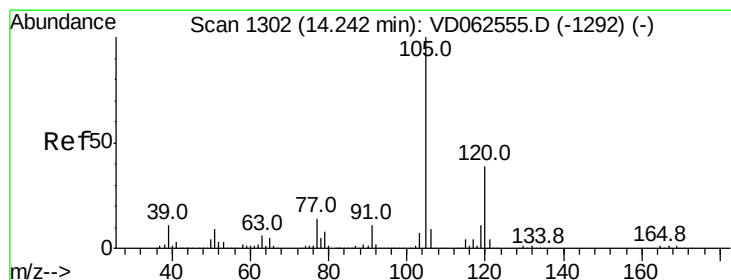
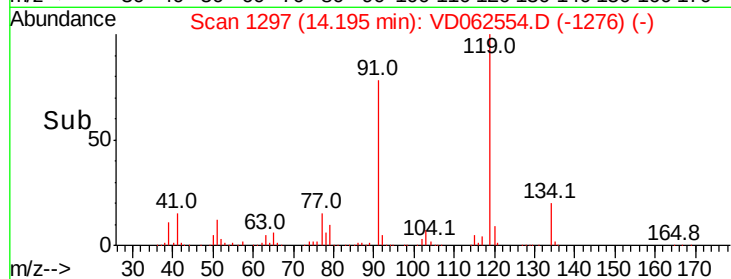
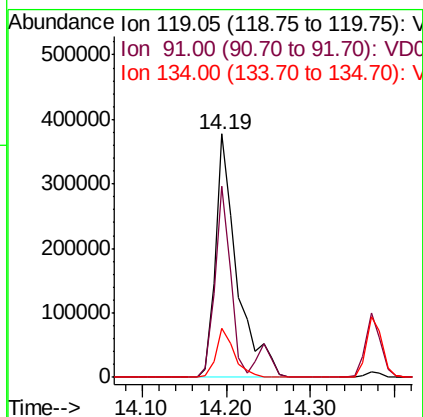
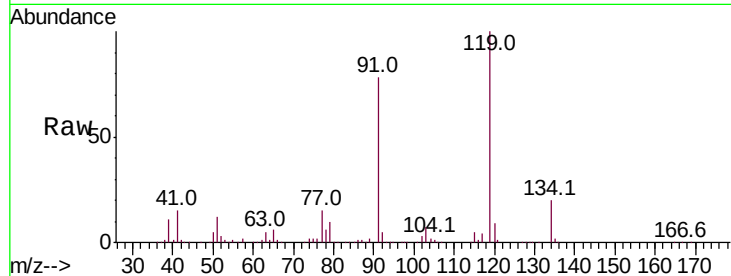




#83
 tert-Butylbenzene
 Concen: 19.828 ug/l
 RT: 14.19 min Scan# 1297
 Delta R.T. 0.00 min
 Lab File: VD062554.D
 Acq: 30 May 2019 15:27

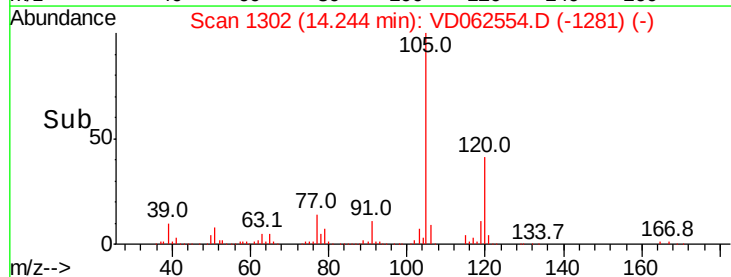
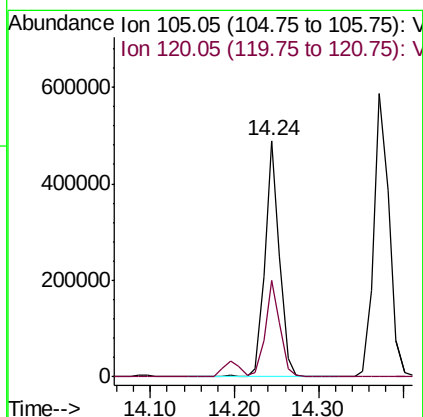
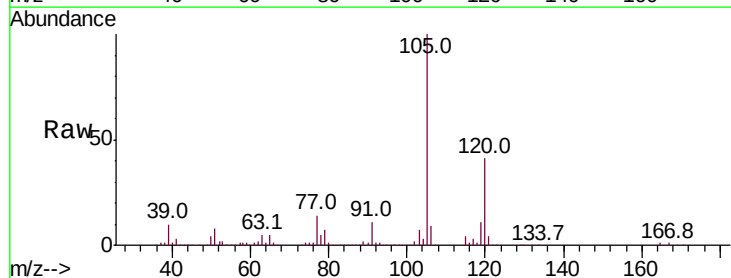
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

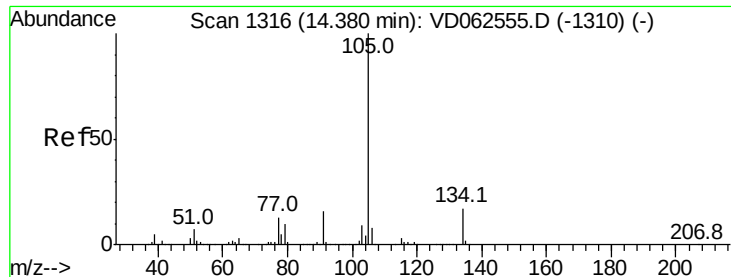
Tot Ion:119 Resp: 667008
 Ion Ratio Lower Upper
 119 100
 91 78.5 39.1 117.5
 134 20.0 10.1 30.3



#84
 1,2,4-Trimethylbenzene
 Concen: 19.719 ug/l
 RT: 14.24 min Scan# 1302
 Delta R.T. 0.00 min
 Lab File: VD062554.D
 Acq: 30 May 2019 15:27

Tgt Ion:105 Resp: 602854
 Ion Ratio Lower Upper
 105 100
 120 41.1 19.6 58.8





#85

sec-Butylbenzene

Concen: 20.641 ug/l

RT: 14.37 min Scan# 1315

Delta R.T. -0.01 min

Lab File: VD062554.D

Acq: 30 May 2019 15:27

Instrument :

MSVOA_D

ClientSampleId :

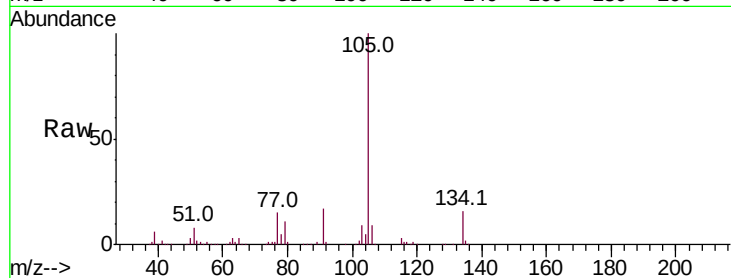
VSTDIC020

Tot Ion:105 Resp: 740528

Ion Ratio Lower Upper

105 100

134 15.9 8.7 26.1



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V

14.37

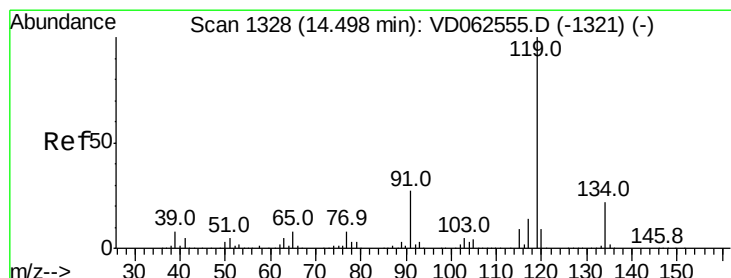
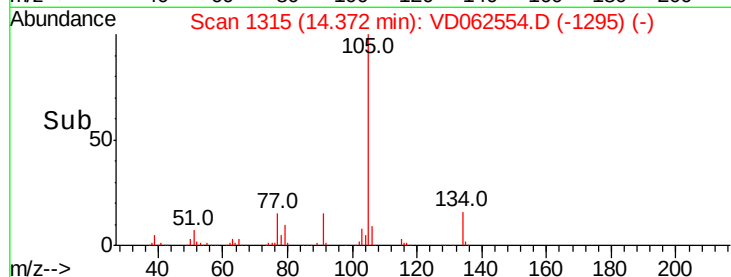
600000

400000

200000

0

Time-->



#86

p-Isopropyltoluene

Concen: 20.908 ug/l

RT: 14.50 min Scan# 1328

Delta R.T. 0.00 min

Lab File: VD062554.D

Acq: 30 May 2019 15:27

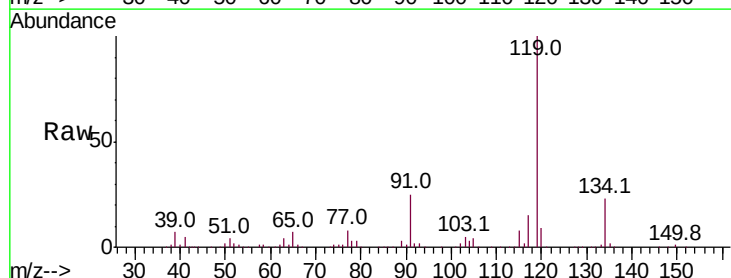
Tgt Ion:119 Resp: 705508

Ion Ratio Lower Upper

119 100

134 23.0 11.2 33.6

91 24.9 13.6 40.7



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

14.50

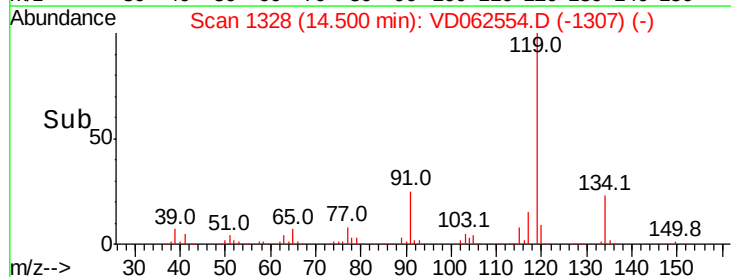
600000

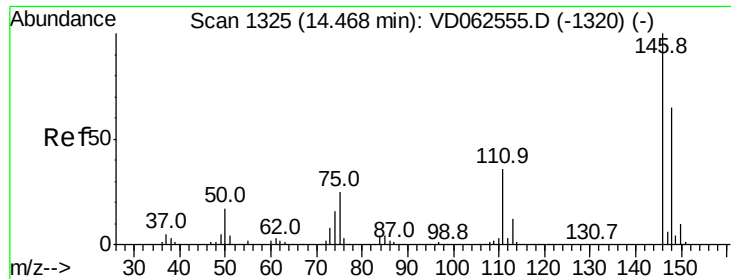
400000

200000

0

Time-->

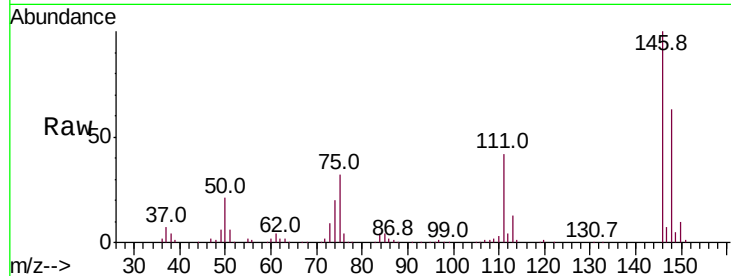




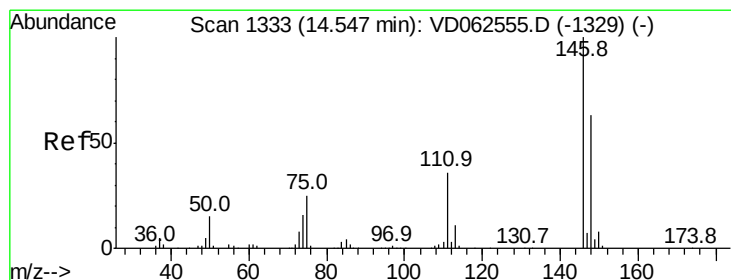
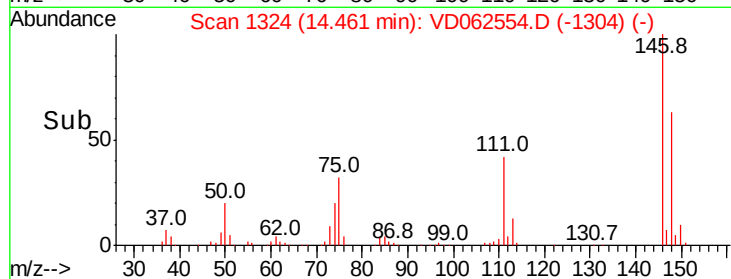
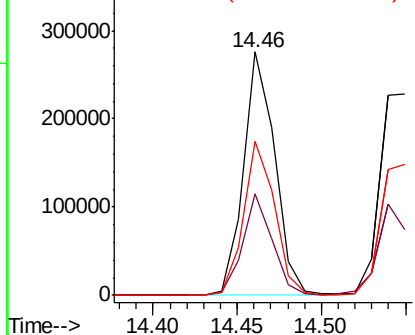
#87
 1,3-Dichlorobenzene
 Concen: 20.683 ug/l
 RT: 14.46 min Scan# 1324
 Delta R.T. -0.01 min
 Lab File: VD062554.D
 Acq: 30 May 2019 15:27

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion:146 Resp: 356295
 Ion Ratio Lower Upper
 146 100
 111 41.8 18.1 54.4
 148 63.5 32.3 96.9

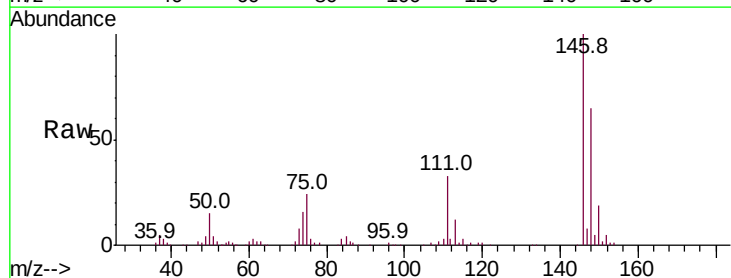


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

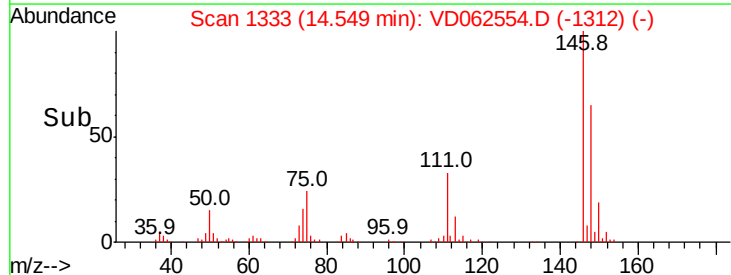
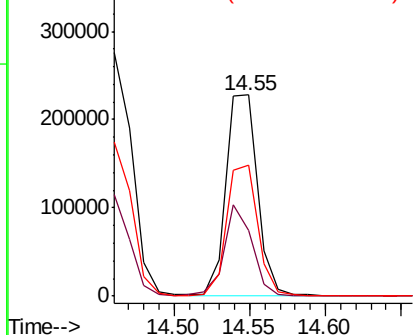


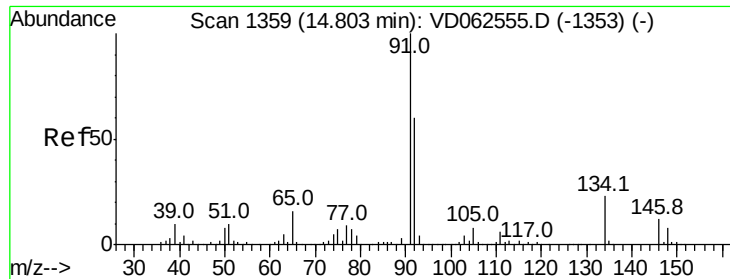
#88
 1,4-Dichlorobenzene
 Concen: 19.528 ug/l
 RT: 14.55 min Scan# 1333
 Delta R.T. 0.00 min
 Lab File: VD062554.D
 Acq: 30 May 2019 15:27

Tgt Ion:146 Resp: 329928
 Ion Ratio Lower Upper
 146 100
 111 32.9 18.2 54.6
 148 65.3 31.6 94.8



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





#89

n-Butylbenzene

Concen: 20.309 ug/l

RT: 14.81 min Scan# 1359

Delta R.T. 0.00 min

Lab File: VD062554.D

Acq: 30 May 2019 15:27

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

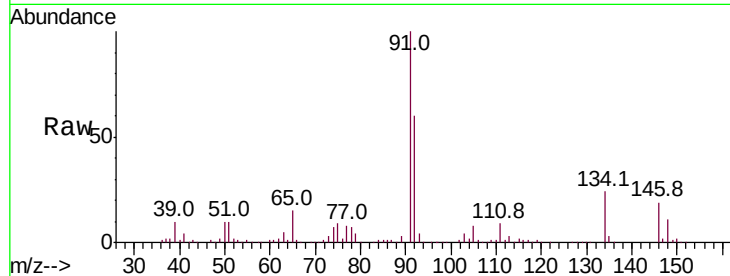
Tot Ion: 91 Resp: 623572

Ion Ratio Lower Upper

91 100

92 60.0 29.8 89.4

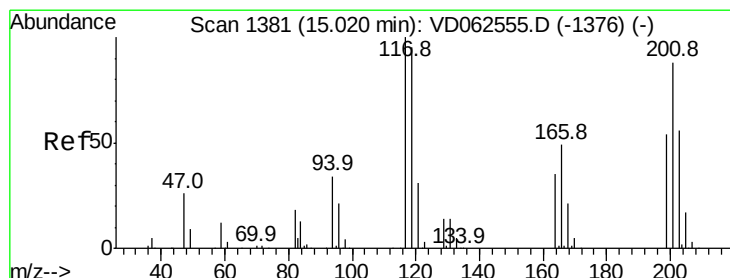
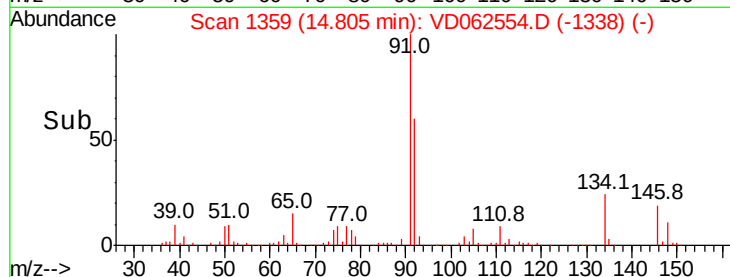
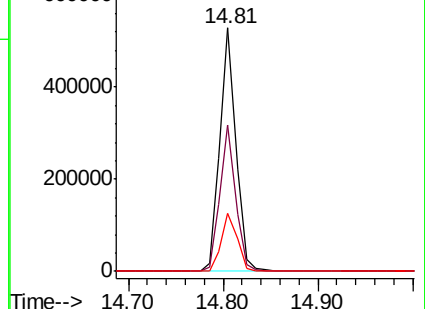
134 24.0 11.3 33.8



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: 19.511 ug/l

RT: 15.01 min Scan# 1380

Delta R.T. -0.01 min

Lab File: VD062554.D

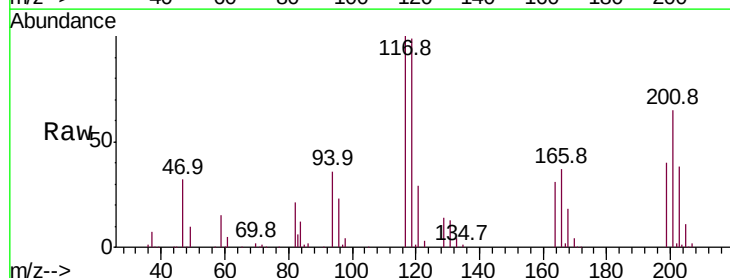
Acq: 30 May 2019 15:27

Tgt Ion: 117 Resp: 175938

Ion Ratio Lower Upper

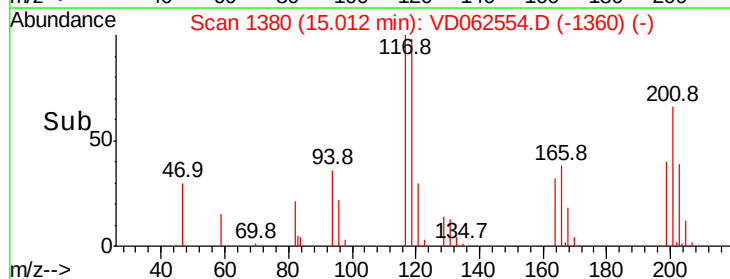
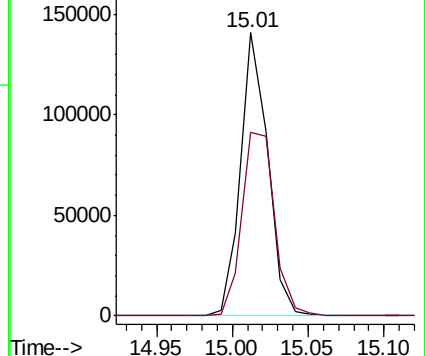
117 100

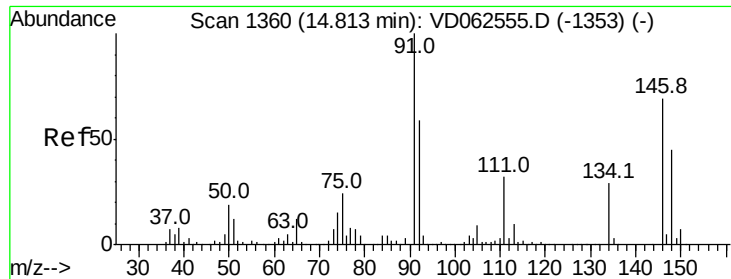
201 64.7 43.8 131.4



Abundance Ion 116.85 (116.55 to 117.55): VDC

Ion 200.75 (200.45 to 201.45): VDC

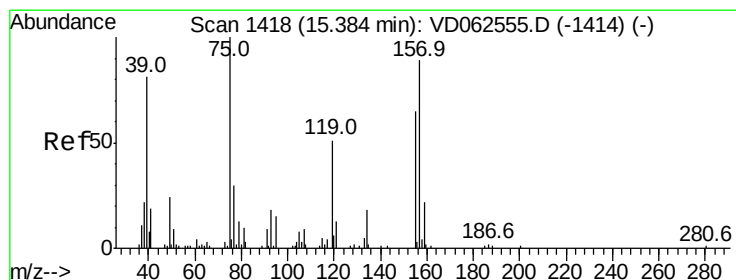
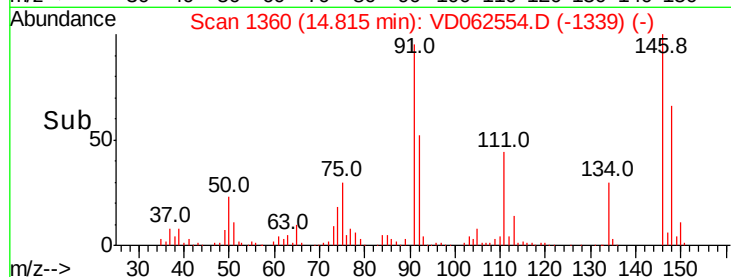
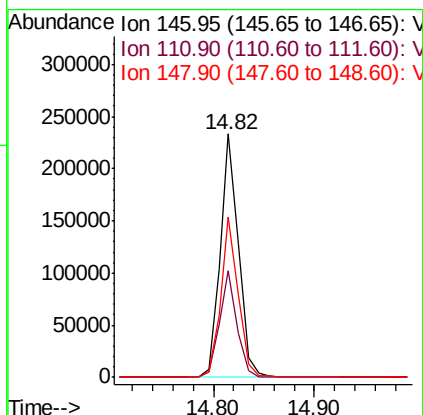
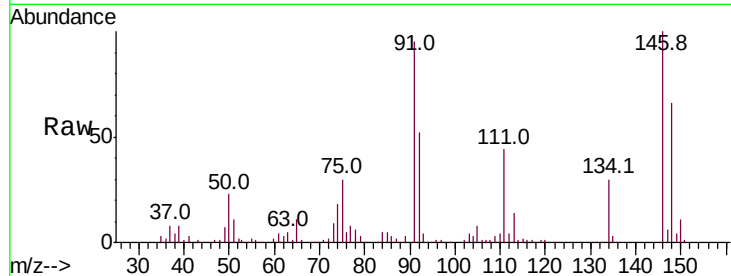




#91
 1,2-Dichlorobenzene
 Concen: 20.122 ug/l
 RT: 14.82 min Scan# 1360
 Delta R.T. 0.00 min
 Lab File: VD062554.D
 Acq: 30 May 2019 15:27

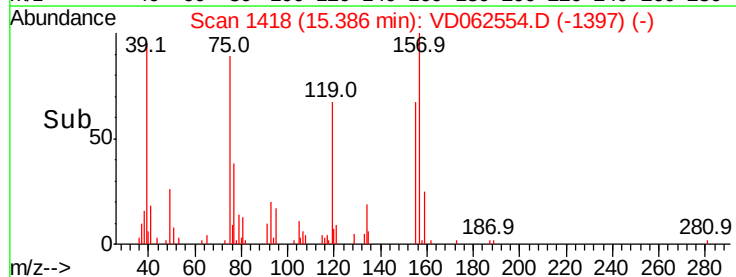
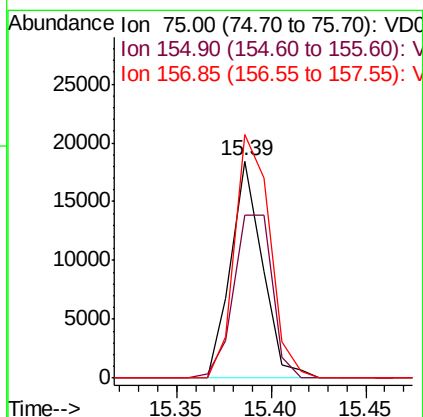
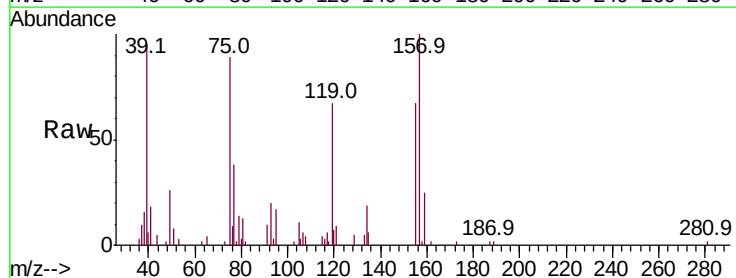
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

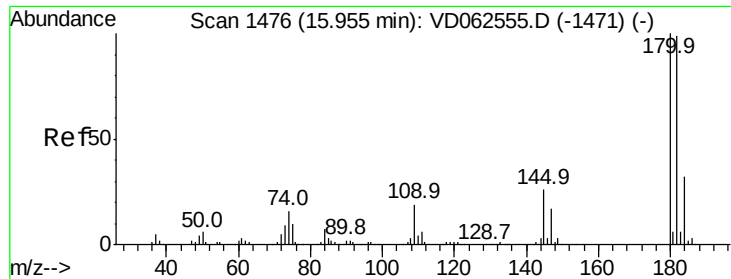
Tot Ion	Ratio	Lower	Upper
146	100		
111	43.9	22.8	68.4
148	66.1	32.3	96.9



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.198 ug/l
 RT: 15.39 min Scan# 1418
 Delta R.T. 0.00 min
 Lab File: VD062554.D
 Acq: 30 May 2019 15:27

Tgt Ion	Ratio	Lower	Upper
75	100		
155	74.8	32.6	97.8
157	112.0	44.5	133.7

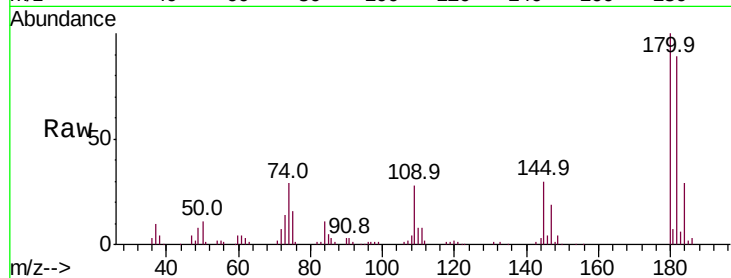




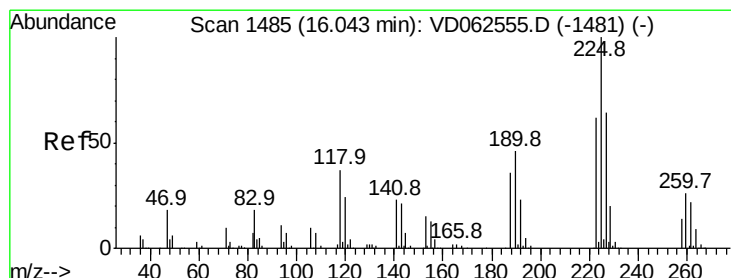
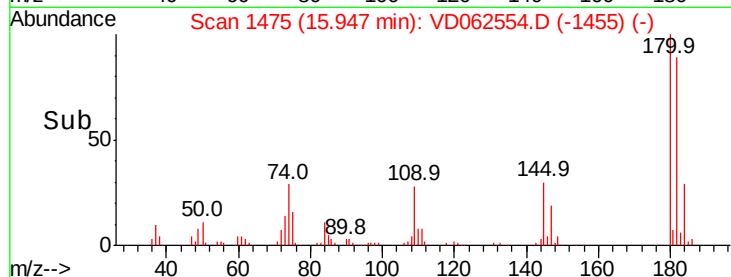
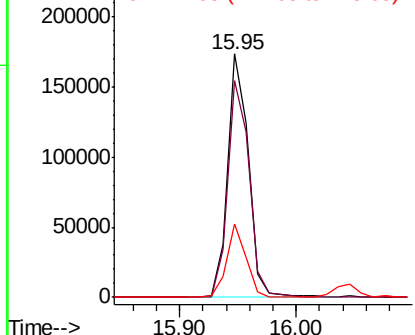
#93
 1,2,4-Trichlorobenzene
 Concen: 18.925 ug/l
 RT: 15.95 min Scan# 1475
 Delta R.T. -0.01 min
 Lab File: VD062554.D
 Acq: 30 May 2019 15:27

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion:180 Resp: 214472
 Ion Ratio Lower Upper
 180 100
 182 88.8 49.5 148.3
 145 30.0 13.1 39.3

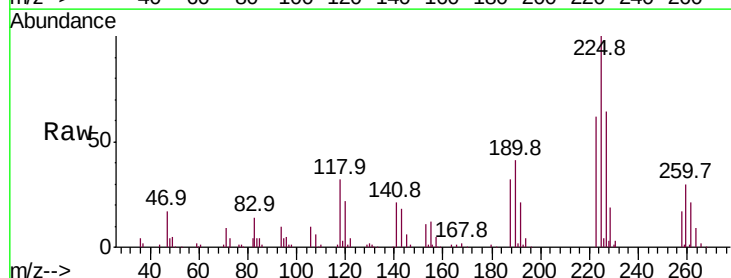


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

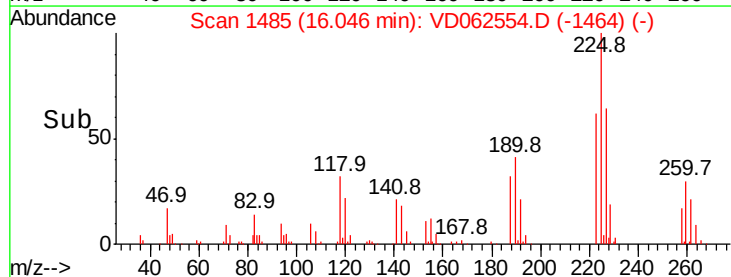
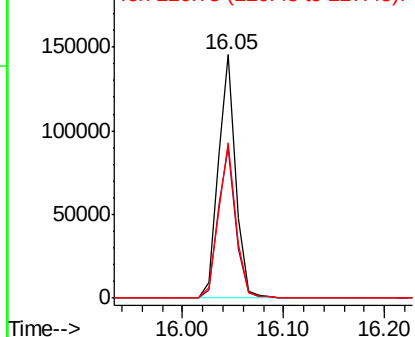


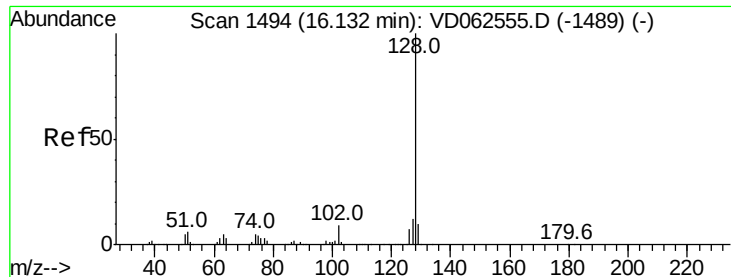
#94
 Hexachlorobutadiene
 Concen: 21.230 ug/l
 RT: 16.05 min Scan# 1485
 Delta R.T. 0.00 min
 Lab File: VD062554.D
 Acq: 30 May 2019 15:27

Tgt Ion:225 Resp: 176481
 Ion Ratio Lower Upper
 225 100
 223 61.6 31.1 93.5
 227 63.7 32.1 96.5



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

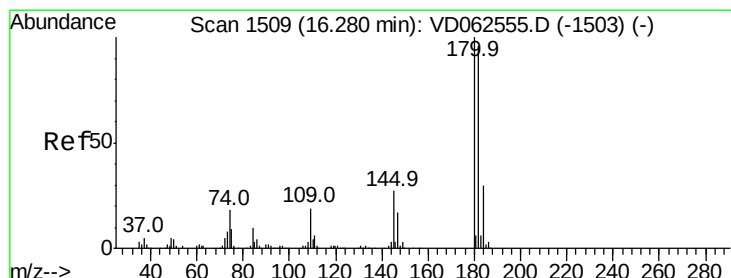
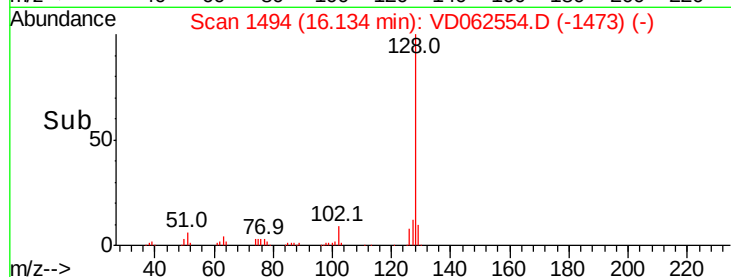
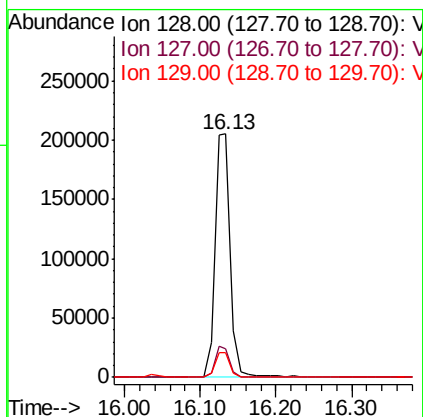
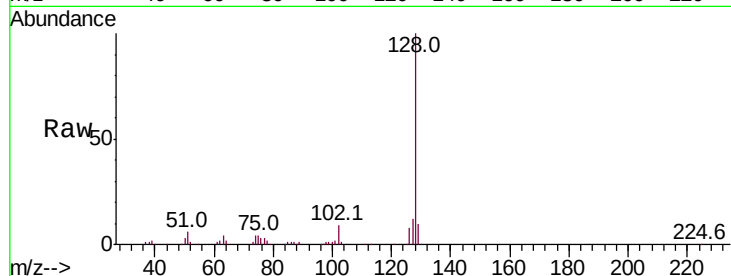




#95
Naphthalene
Concen: 18.308 ug/l
RT: 16.13 min Scan# 1494
Delta R.T. 0.00 min
Lab File: VD062554.D
Acq: 30 May 2019 15:27

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion:128 Resp: 292889
Ion Ratio Lower Upper
128 100
127 11.5 9.7 14.5
129 10.2 8.2 12.2



#96
1,2,3-Trichlorobenzene
Concen: 19.375 ug/l
RT: 16.27 min Scan# 1508
Delta R.T. -0.01 min
Lab File: VD062554.D
Acq: 30 May 2019 15:27

Tgt Ion:180 Resp: 165561
Ion Ratio Lower Upper
180 100
182 93.8 48.1 144.3
145 32.0 13.3 39.9

