

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052019\
 Data File : VD062456.D
 Acq On : 20 May 2019 15:17
 Operator : FY/SY
 Sample : VSTDIC020
 Misc : 5.00g/5mL/MSVOA D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Quant Time: May 20 16:07:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
 Quant Title : SW846 8260
 QLast Update : Mon May 20 16:04:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	653164	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.23	114	917618	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	730455	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.53	152	419970	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	145751	24.01	ug/l	0.00
Spiked Amount			Recovery	=	48.02%	
35) Dibromofluoromethane	6.94	113	163722	21.50	ug/l	0.00
Spiked Amount			Recovery	=	43.00%	
50) Toluene-d8	10.43	98	379833	20.69	ug/l	0.00
Spiked Amount			Recovery	=	41.38%	
62) 4-Bromofluorobenzene	13.57	95	164031	22.25	ug/l	0.00
Spiked Amount			Recovery	=	44.50%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.58	85	167250	26.773	ug/l	96
3) Chloromethane	1.75	50	104611	23.175	ug/l	99
4) Vinyl Chloride	1.85	62	109420	24.665	ug/l	94
5) Bromomethane	2.15	94	41018	39.461	ug/l	97
6) Chloroethane	2.26	64	48453	26.029	ug/l	97
7) Trichlorofluoromethane	2.53	101	244484	28.347	ug/l	90
8) Diethyl Ether	2.88	74	29676	17.841	ug/l	51
9) 1,1,2-Trichlorotrifluoroet	3.15	101	142800	21.888	ug/l	95
10) Methyl Iodide	3.31	142	194848	19.761	ug/l #	80
11) Tert butyl alcohol	4.12	59	33453	107.970	ug/l	97
12) 1,1-Dichloroethene	3.13	96	103538	20.790	ug/l	82
13) Acrolein	3.05	56	29115	90.852	ug/l	87
14) Allyl chloride	3.63	41	148846	20.555	ug/l #	73
15) Acrylonitrile	4.21	53	75866	93.157	ug/l #	87
16) Acetone	3.23	43	118859	93.374	ug/l #	83
17) Carbon Disulfide	3.38	76	317484	22.160	ug/l	100
18) Methyl Acetate	3.66	43	45673	18.293	ug/l	92
19) Methyl tert-butyl Ether	4.26	73	238139	22.308	ug/l #	88
20) Methylene Chloride	3.82	84	132533	24.936	ug/l	93
21) trans-1,2-Dichloroethene	4.23	96	121591	21.940	ug/l	91
22) Diisopropyl ether	5.14	45	321332	20.853	ug/l	96
23) Vinyl Acetate	5.07	43	939961	115.615	ug/l	96
24) 1,1-Dichloroethane	4.99	63	209873	22.577	ug/l	98
25) 2-Butanone	6.09	43	128309	92.411	ug/l	98
26) 2,2-Dichloropropane	6.04	77	228442	24.670	ug/l	94
27) cis-1,2-Dichloroethene	6.06	96	128046	20.642	ug/l	93
28) Bromochloromethane	6.45	49	71207	19.470	ug/l	84
29) Tetrahydrofuran	6.48	42	63564	99.358	ug/l	96
30) Chloroform	6.68	83	263391	23.510	ug/l	100
31) Cyclohexane	6.97	56	134284	21.085	ug/l	97
32) 1,1,1-Trichloroethane	6.88	97	260319	24.584	ug/l	100
36) 1,1-Dichloropropene	7.16	75	195123	25.935	ug/l	90
37) Ethyl Acetate	6.20	43	65598	20.559	ug/l	95
38) Carbon Tetrachloride	7.13	117	287537	27.612	ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.88	83	156265	21.678	ug/l	99
40) Benzene	7.47	78	352789	20.766	ug/l	98
41) Methacrylonitrile	6.47	41	81138	20.809	ug/l #	81
42) 1,2-Dichloroethane	7.59	62	187600	26.063	ug/l	93
43) Isopropyl Acetate	9.25	43	88367	19.528	ug/l #	86
44) Trichloroethene	8.56	130	140453	21.696	ug/l	91
45) 1,2-Dichloropropane	8.95	63	82915	19.731	ug/l	97
46) Dibromomethane	9.08	93	74759	21.877	ug/l	88
47) Bromodichloromethane	9.39	83	192064	22.978	ug/l	97
48) Methyl methacrylate	9.14	41	59700	21.419	ug/l #	80
49) 1,4-Dioxane	9.10	88	11073	368.203	ug/l #	89
51) 4-Methyl-2-Pentanone	10.32	43	304155	104.566	ug/l	95
52) Toluene	10.52	92	254372	23.012	ug/l	95
53) t-1,3-Dichloropropene	10.93	75	174233	24.118	ug/l	99
54) cis-1,3-Dichloropropene	10.05	75	164772	20.907	ug/l #	88
55) 1,1,2-Trichloroethane	11.20	97	82723	21.151	ug/l	97
56) Ethyl methacrylate	11.06	69	87129	21.438	ug/l #	76
57) 1,3-Dichloropropane	11.42	76	121000	20.478	ug/l	92
58) 2-Chloroethyl Vinyl ether	9.86	63	232152	104.572	ug/l	99
59) 2-Hexanone	11.54	43	208823	97.405	ug/l	88
60) Dibromochloromethane	11.70	129	154308	22.829	ug/l	99
61) 1,2-Dibromoethane	11.82	107	96004	20.190	ug/l	92
64) Tetrachloroethene	11.27	164	130518	22.850	ug/l	94
65) Chlorobenzene	12.40	112	311163	22.871	ug/l	100
66) 1,1,1,2-Tetrachloroethane	12.52	131	140639	23.752	ug/l	94
67) Ethyl Benzene	12.53	91	544362	23.900	ug/l	97
68) m/p-Xylenes	12.68	106	366011	44.168	ug/l	87
69) o-Xylene	13.05	106	182123	23.640	ug/l	90
70) Styrene	13.08	104	298877	22.901	ug/l	98
71) Bromoform	13.24	173	91213	22.142	ug/l	96
73) Isopropylbenzene	13.41	105	557132	22.131	ug/l	95
74) N-amyl acetate	13.27	43	127711	19.350	ug/l #	91
75) 1,1,2,2-Tetrachloroethane	13.70	83	92752	19.462	ug/l	97
76) 1,2,3-Trichloropropane	13.74	75	98533	19.742	ug/l	96
77) Bromobenzene	13.67	156	158672	22.516	ug/l	86
78) n-propylbenzene	13.78	91	643463	21.427	ug/l	95
79) 2-Chlorotoluene	13.85	91	365577	21.256	ug/l	93
80) 1,3,5-Trimethylbenzene	13.94	105	464220	21.898	ug/l	88
81) trans-1,4-Dichloro-2-buten	13.48	75	26297	18.664	ug/l #	52
82) 4-Chlorotoluene	13.95	91	425147	21.007	ug/l	81
83) tert-Butylbenzene	14.19	119	520105	21.828	ug/l	90
84) 1,2,4-Trimethylbenzene	14.24	105	477480	22.445	ug/l	89
85) sec-Butylbenzene	14.37	105	550121	21.058	ug/l	97
86) p-Isopropyltoluene	14.50	119	501748	21.497	ug/l	93
87) 1,3-Dichlorobenzene	14.46	146	273859	21.273	ug/l	100
88) 1,4-Dichlorobenzene	14.54	146	261184	20.648	ug/l	98
89) n-Butylbenzene	14.81	91	493517	23.557	ug/l	92
90) Hexachloroethane	15.01	117	126448	19.921	ug/l	97
91) 1,2-Dichlorobenzene	14.81	146	233912	22.063	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	15.39	75	17925	22.913	ug/l	77

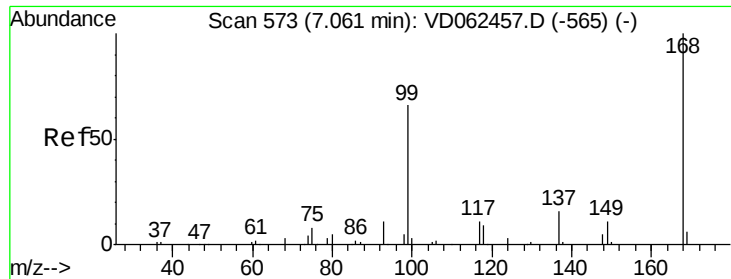
Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052019\
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.95	180	183434	23.770	ug/l	98
94) Hexachlorobutadiene	16.05	225	127851	22.275	ug/l	99
95) Naphthalene	16.13	128	215179	19.973	ug/l	99
96) 1,2,3-Trichlorobenzene	16.28	180	147259	30.351	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 573

Delta R.T. -0.00 min

Lab File: VD062456.D

Acq: 20 May 2019 15:17

Instrument :

MSVOA_D

ClientSampleId :

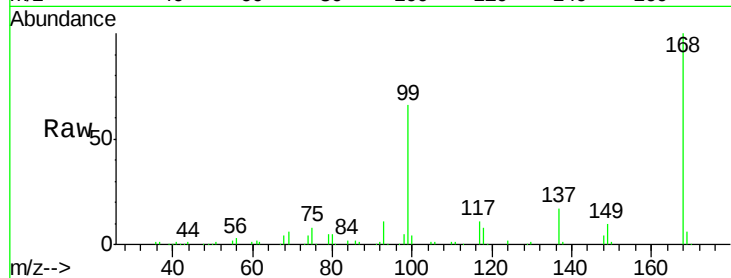
VSTDIC020

Tot Ion:168 Resp: 653164

Ion Ratio Lower Upper

168 100

99 65.9 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.06

250000

200000

150000

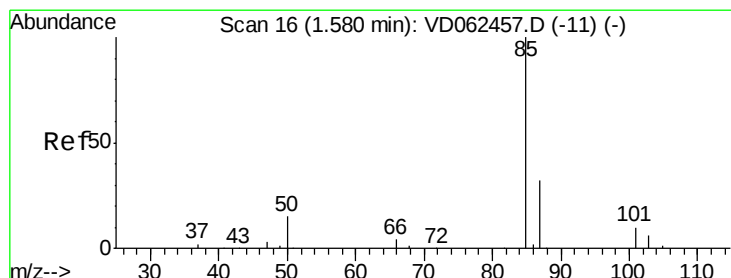
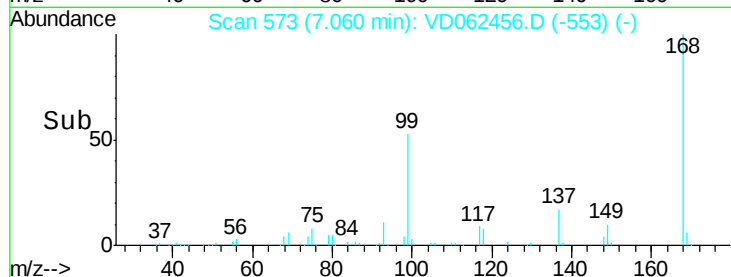
100000

50000

0

6.90 7.00 7.10 7.20 7.30

Time-->



#2

Dichlorodifluoromethane

Concen: 26.773 ug/l

RT: 1.58 min Scan# 16

Delta R.T. -0.00 min

Lab File: VD062456.D

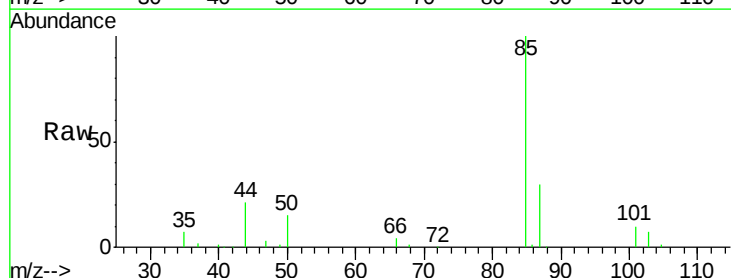
Acq: 20 May 2019 15:17

Tgt Ion: 85 Resp: 167250

Ion Ratio Lower Upper

85 100

87 30.2 16.2 48.6



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.58

100000

80000

60000

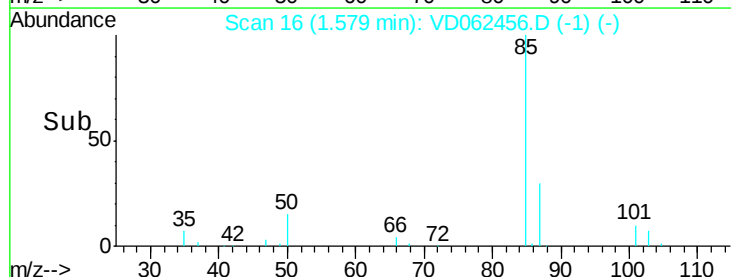
40000

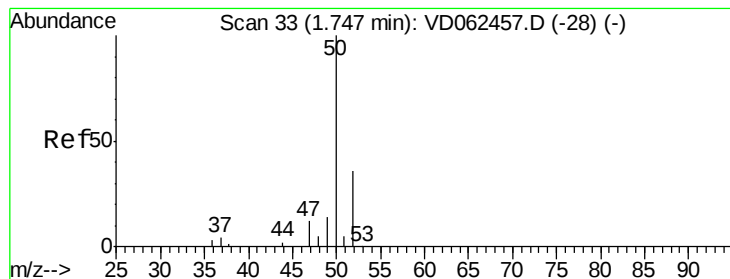
20000

0

1.50 1.60 1.70 1.80

Time-->





#3

Chloromethane

Concen: 23.175 ug/l

RT: 1.75 min Scan# 33

Delta R.T. -0.00 min

Lab File: VD062456.D

Acq: 20 May 2019 15:17

Instrument :

MSVOA_D

ClientSampleId :

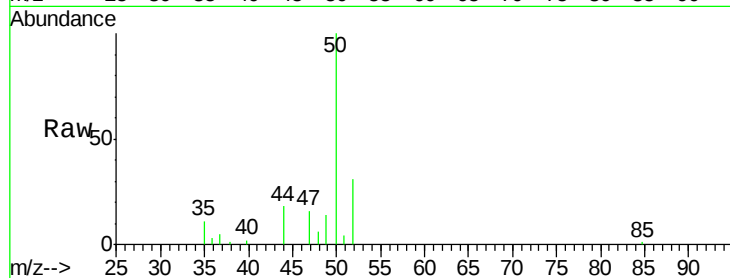
VSTDIC020

Tot Ion: 50 Resp: 104611

Ion Ratio Lower Upper

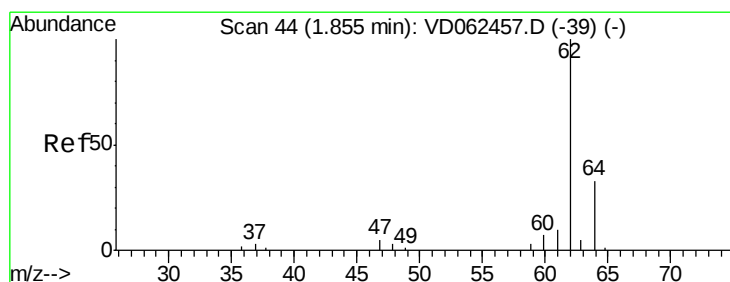
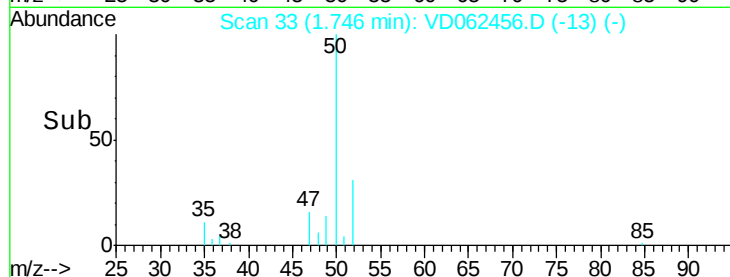
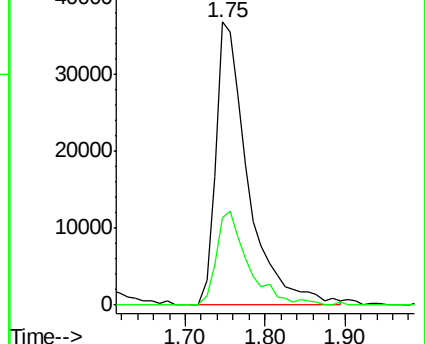
50 100

52 30.8 25.2 37.8



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 24.665 ug/l

RT: 1.85 min Scan# 44

Delta R.T. -0.00 min

Lab File: VD062456.D

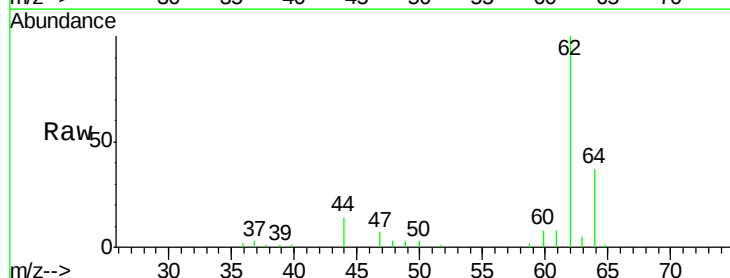
Acq: 20 May 2019 15:17

Tgt Ion: 62 Resp: 109420

Ion Ratio Lower Upper

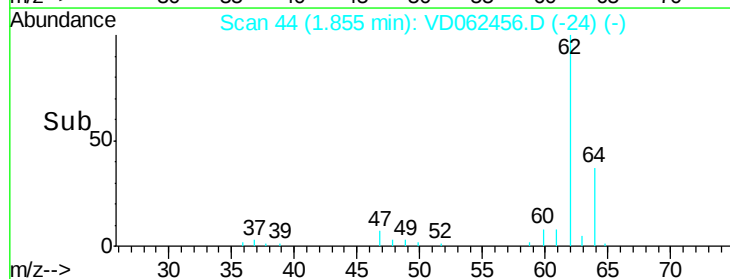
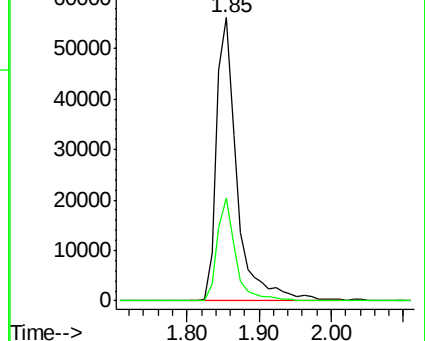
62 100

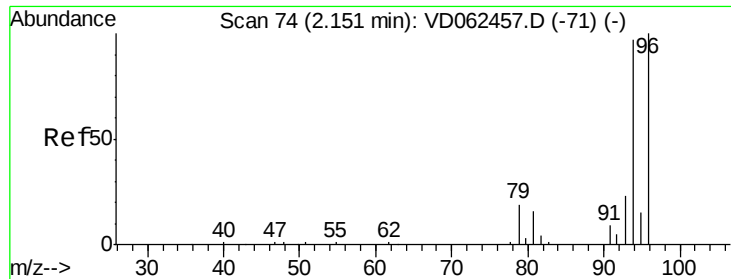
64 36.5 26.5 39.7



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 39.461 ug/l

RT: 2.15 min Scan# 74

Delta R.T. -0.00 min

Lab File: VD062456.D

Acq: 20 May 2019 15:17

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

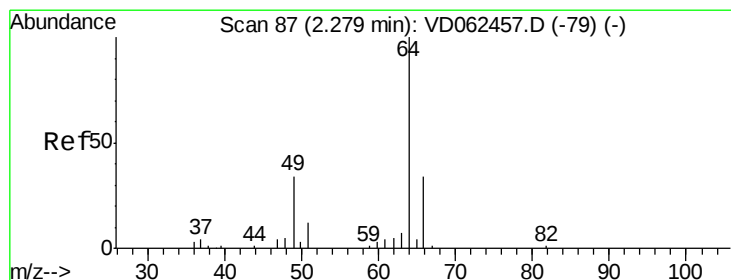
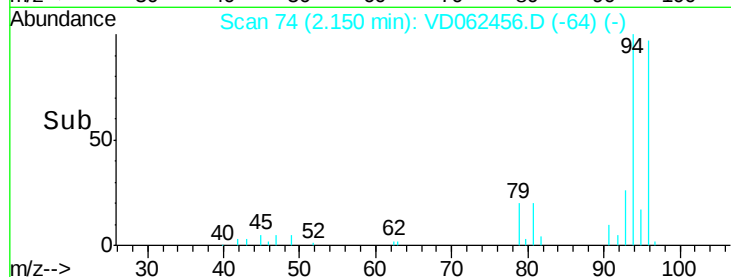
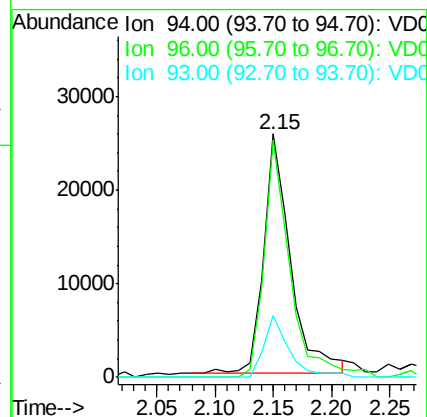
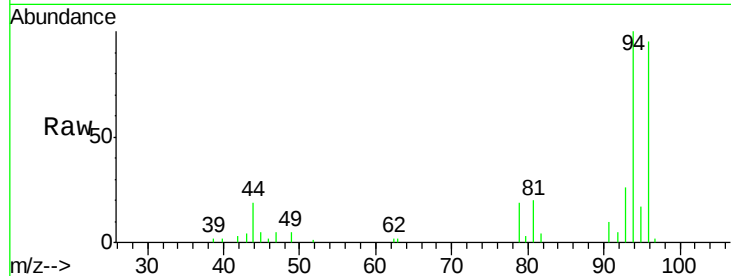
Tot Ion: 94 Resp: 41018

Ion Ratio Lower Upper

94 100

96 97.7 76.6 115.0

93 25.6 18.5 27.7



#6

Chloroethane

Concen: 26.029 ug/l

RT: 2.26 min Scan# 85

Delta R.T. -0.02 min

Lab File: VD062456.D

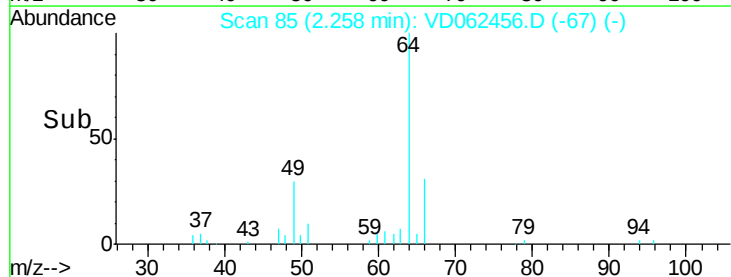
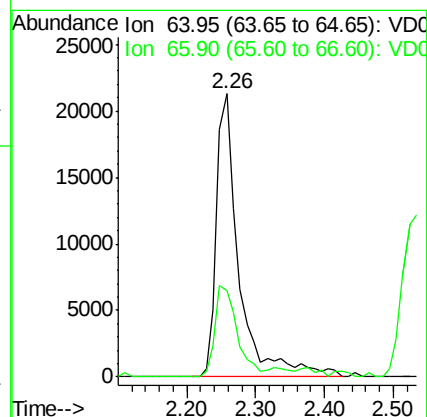
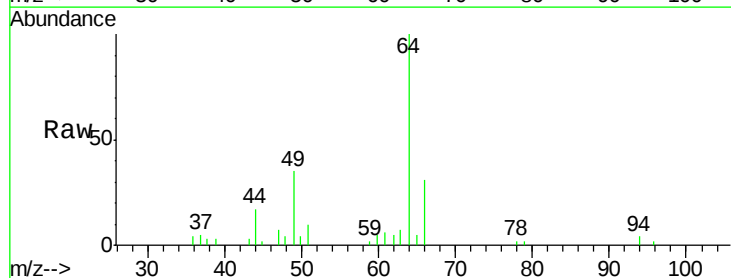
Acq: 20 May 2019 15:17

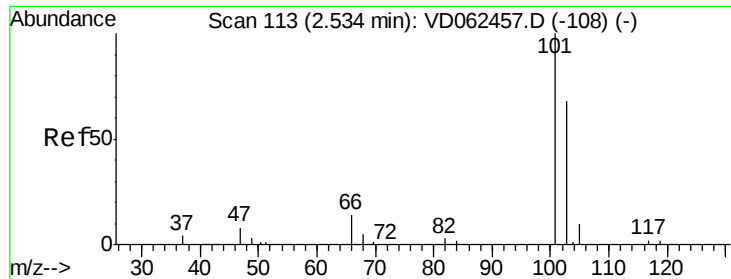
Tgt Ion: 64 Resp: 48453

Ion Ratio Lower Upper

64 100

66 30.5 25.6 38.4



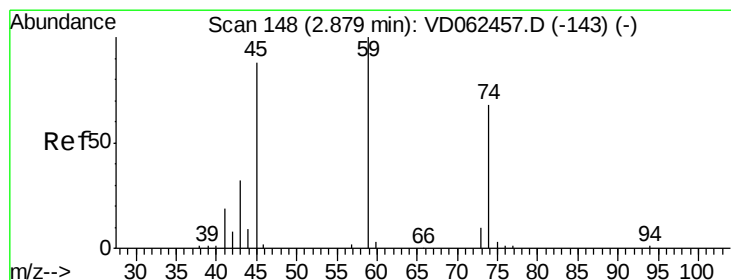
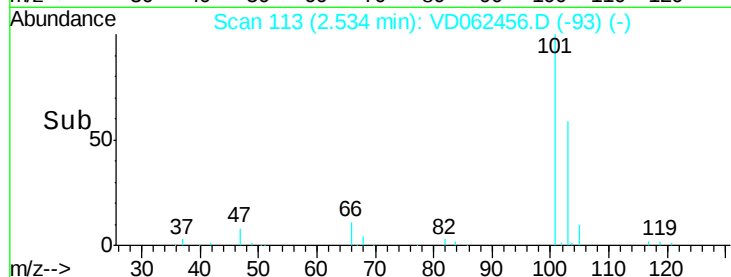
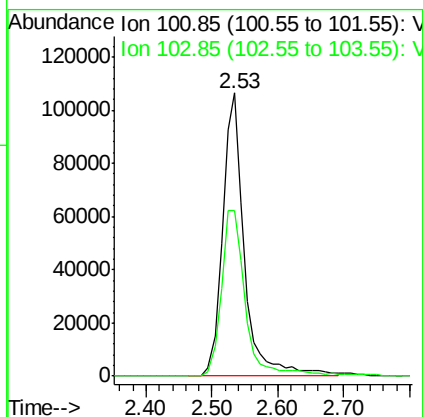
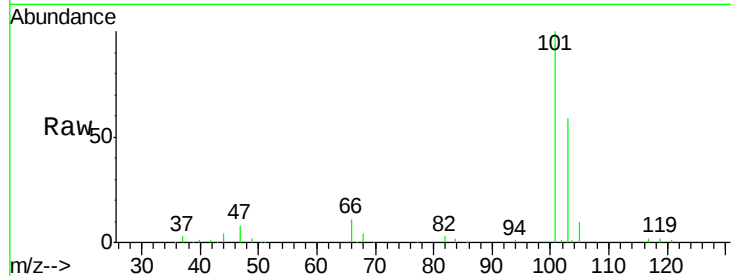


#7

Trichlorofluoromethane
 Concen: 28.347 ug/l
 RT: 2.53 min Scan# 113
 Delta R.T. -0.00 min
 Lab File: VD062456.D
 Acq: 20 May 2019 15:17

Instrument :
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 ClientSampleId :
 VSTDIC020

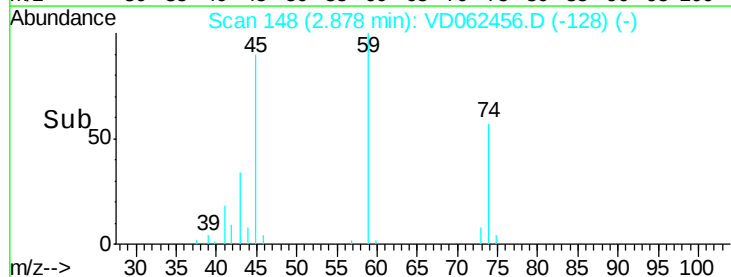
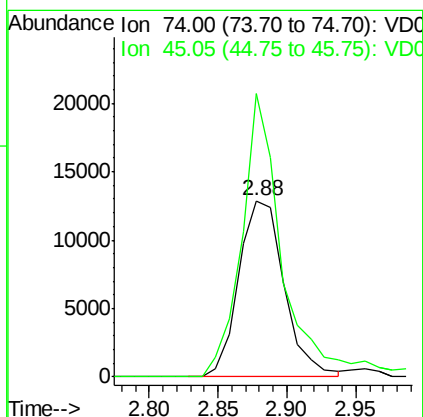
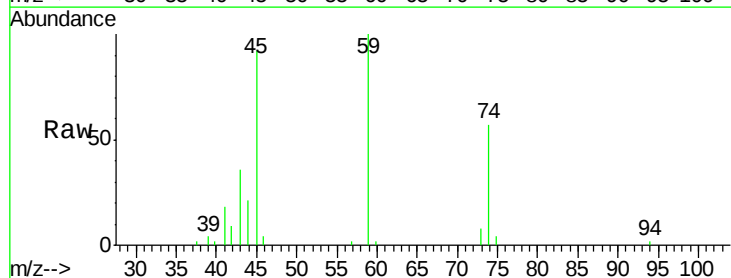
Tot Ion:101 Resp: 244484
 Ion Ratio Lower Upper
 101 100
 103 58.7 53.6 80.4

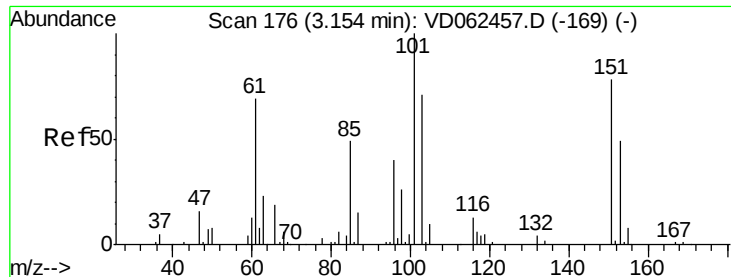


#8

Diethyl Ether
 Concen: 17.841 ug/l
 RT: 2.88 min Scan# 148
 Delta R.T. -0.00 min
 Lab File: VD062456.D
 Acq: 20 May 2019 15:17

Tgt Ion: 74 Resp: 29676
 Ion Ratio Lower Upper
 74 100
 45 166.9 56.9 170.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.888 ug/l

RT: 3.15 min Scan# 176

Delta R.T. -0.00 min

Lab File: VD062456.D

Acq: 20 May 2019 15:17

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

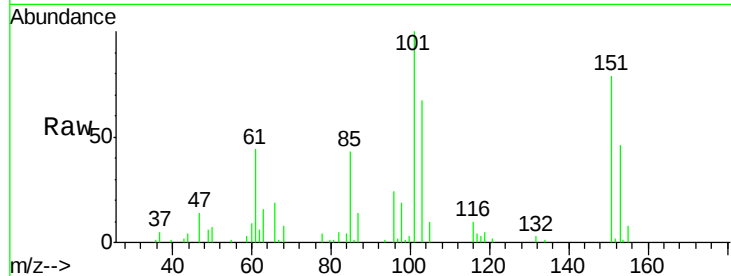
Tot Ion:101 Resp: 142800

Ion Ratio Lower Upper

101 100

85 42.7 32.4 48.6

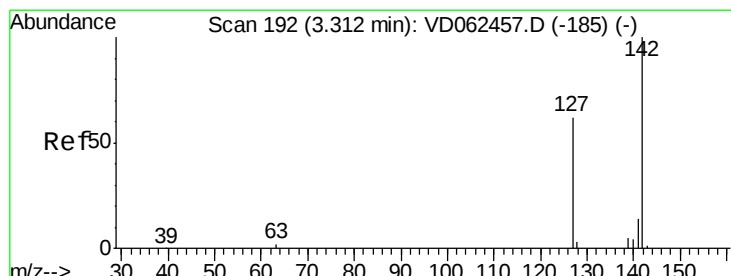
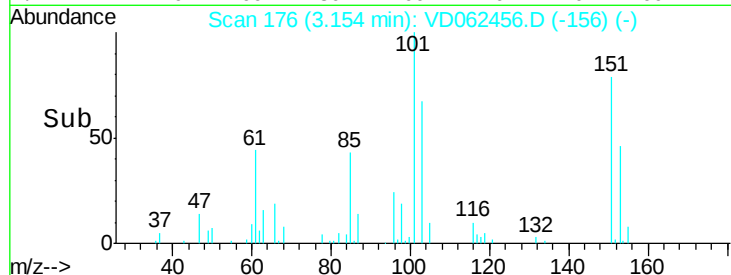
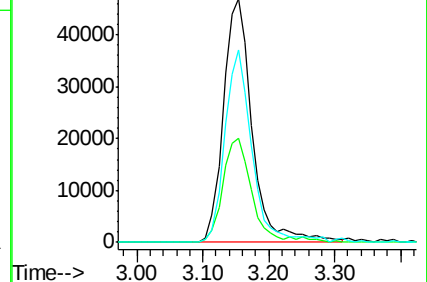
151 79.2 59.4 89.0



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): V

Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 19.761 ug/l

RT: 3.31 min Scan# 192

Delta R.T. -0.00 min

Lab File: VD062456.D

Acq: 20 May 2019 15:17

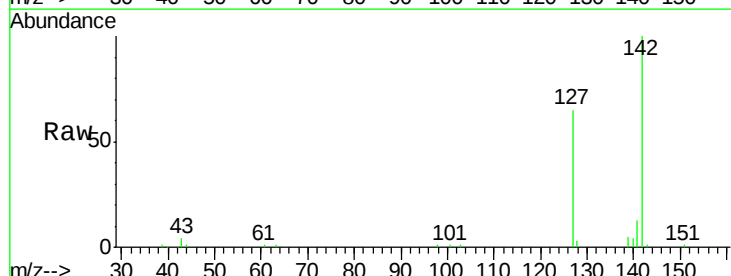
Tgt Ion:142 Resp: 194848

Ion Ratio Lower Upper

142 100

127 65.2 38.8 58.2#

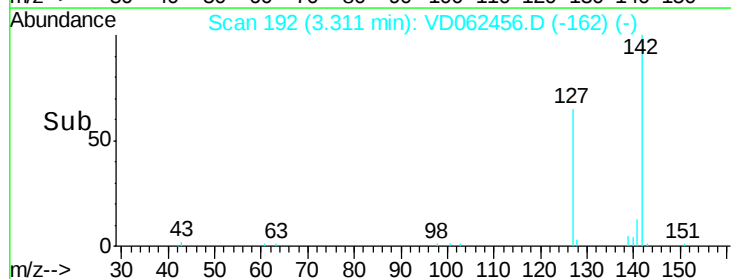
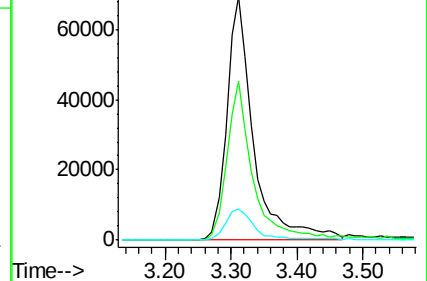
141 12.6 11.4 17.0

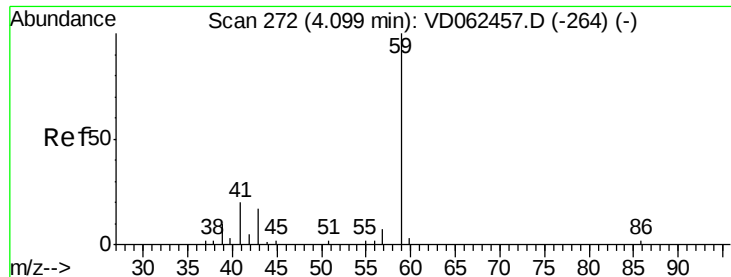


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

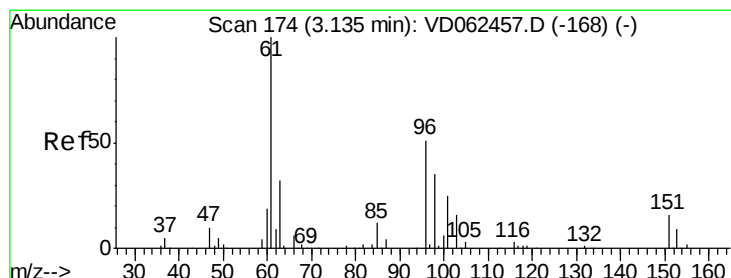
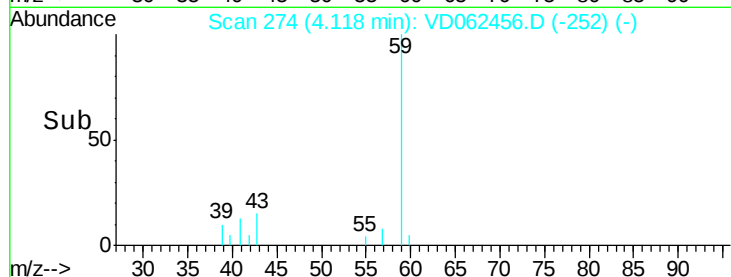
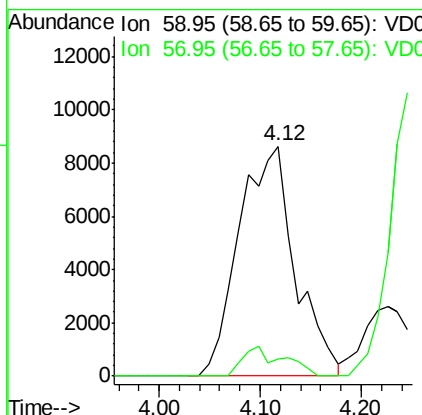
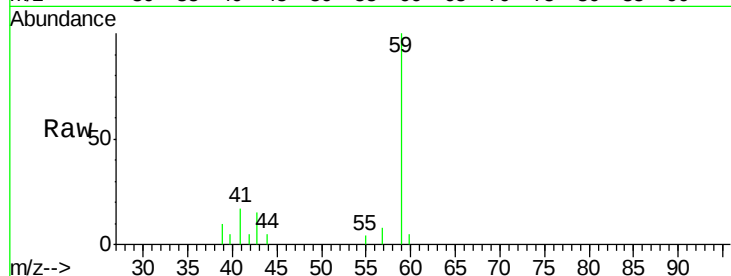




#11
Tert butyl alcohol
Concen: 107.970 ug/l
RT: 4.12 min Scan# 274
Delta R.T. 0.02 min
Lab File: VD062456.D
Acq: 20 May 2019 15:17

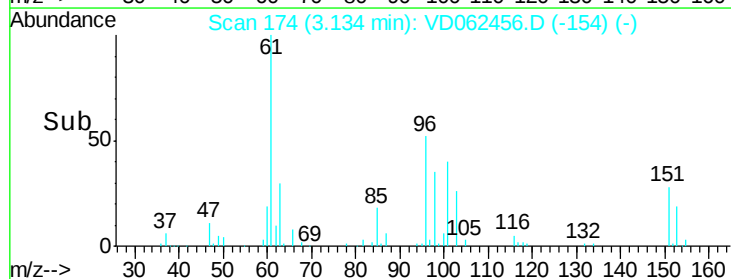
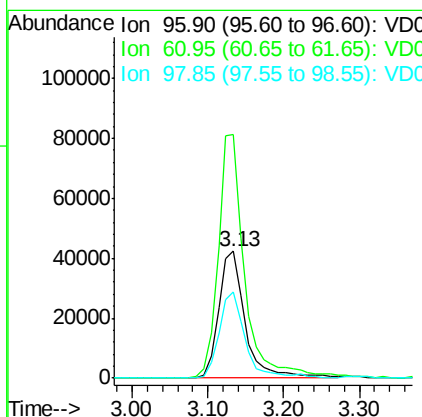
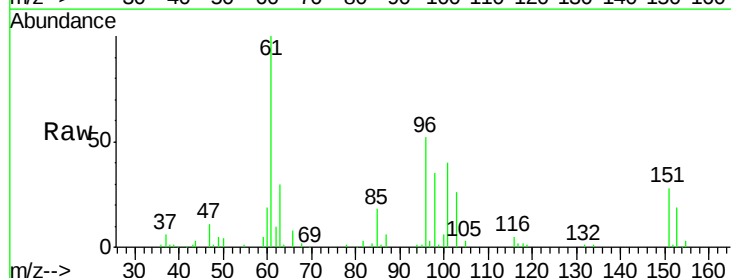
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

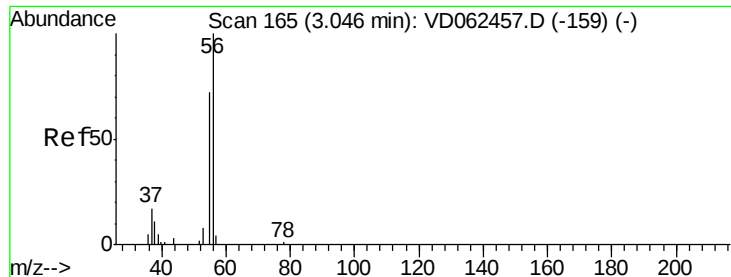
Tot Ion: 59 Resp: 33453
Ion Ratio Lower Upper
59 100
57 7.6 6.9 10.3



#12
1,1-Dichloroethene
Concen: 20.790 ug/l
RT: 3.13 min Scan# 174
Delta R.T. -0.00 min
Lab File: VD062456.D
Acq: 20 May 2019 15:17

Tgt Ion: 96 Resp: 103538
Ion Ratio Lower Upper
96 100
61 192.4 129.8 194.8
98 68.1 51.2 76.8





#13

Acrolein

Concen: 90.852 ug/l

RT: 3.05 min Scan# 165

Delta R.T. -0.00 min

Lab File: VD062456.D

Acq: 20 May 2019 15:17

Instrument :

MSVOA_D

ClientSampleId :

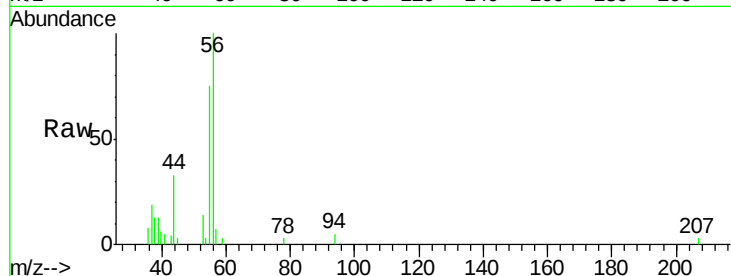
VSTDIC020

Tot Ion: 56 Resp: 29115

Ion Ratio Lower Upper

56 100

55 74.9 51.4 77.2



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

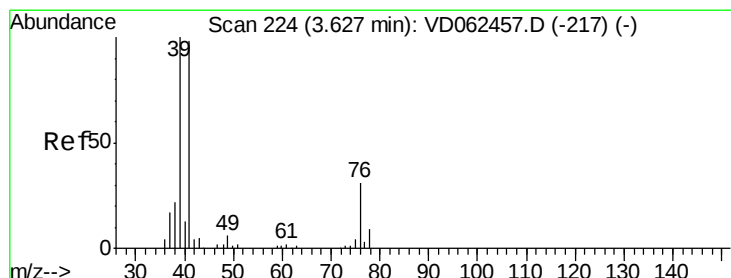
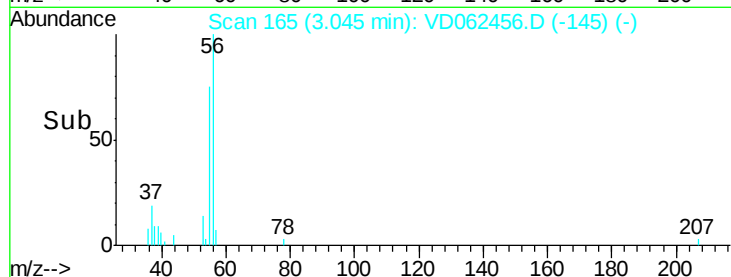
3.05

10000

5000

0

Time-->



#14

Allyl chloride

Concen: 20.555 ug/l

RT: 3.63 min Scan# 224

Delta R.T. -0.00 min

Lab File: VD062456.D

Acq: 20 May 2019 15:17

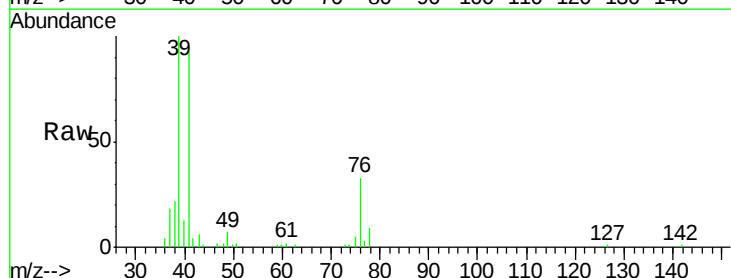
Tgt Ion: 41 Resp: 148846

Ion Ratio Lower Upper

41 100

39 107.6 60.5 90.7#

76 35.4 31.8 47.8



Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC

3.63

80000

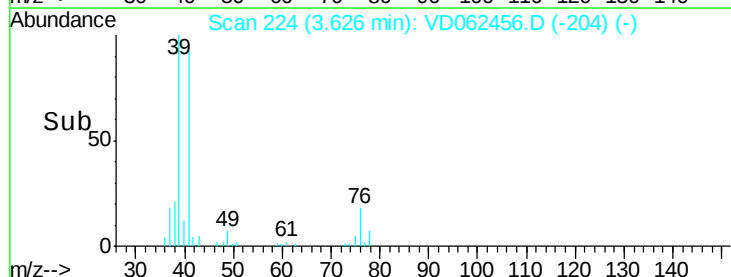
60000

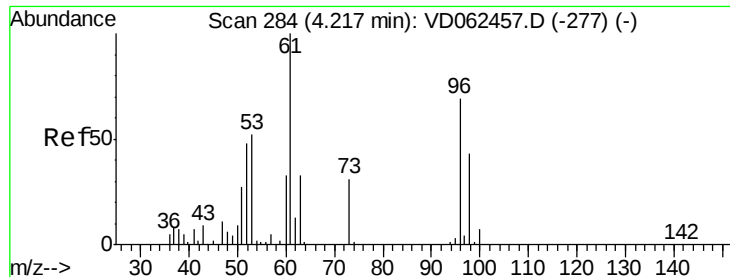
40000

20000

0

Time-->





#15

Acrylonitrile

Concen: 93.157 ug/l

RT: 4.21 min Scan# 283

Delta R.T. -0.01 min

Lab File: VD062456.D

Acq: 20 May 2019 15:17

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

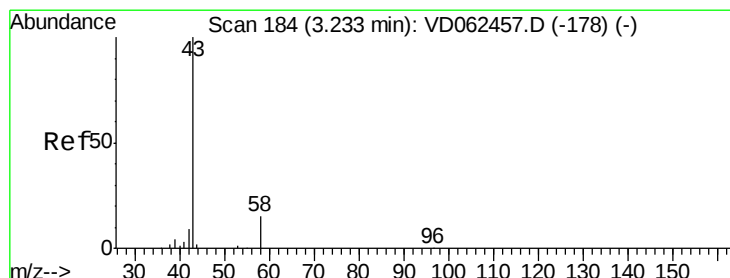
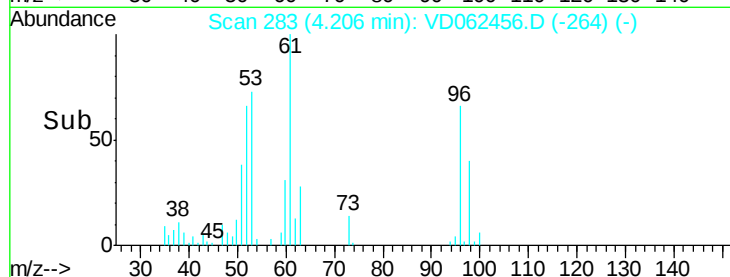
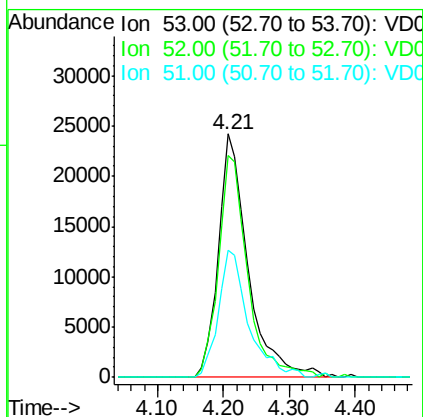
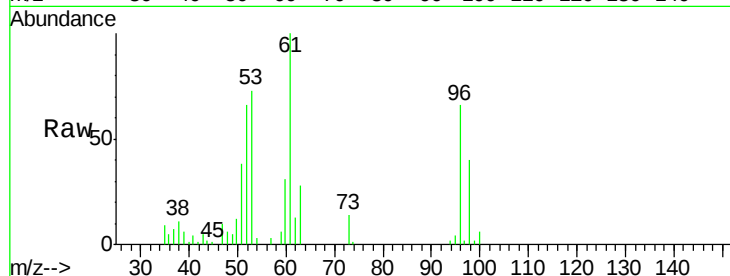
Tot Ion: 53 Resp: 75866

Ion Ratio Lower Upper

53 100

52 90.9 65.0 97.4

51 52.1 32.6 48.8#



#16

Acetone

Concen: 93.374 ug/l

RT: 3.23 min Scan# 184

Delta R.T. -0.00 min

Lab File: VD062456.D

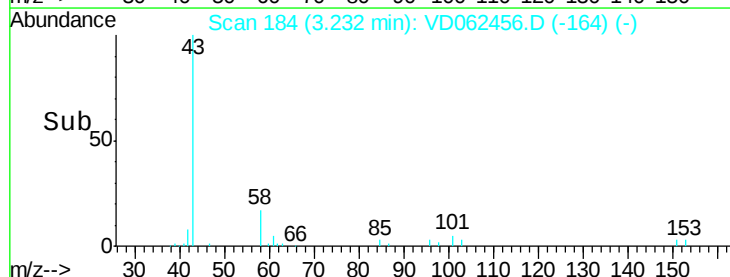
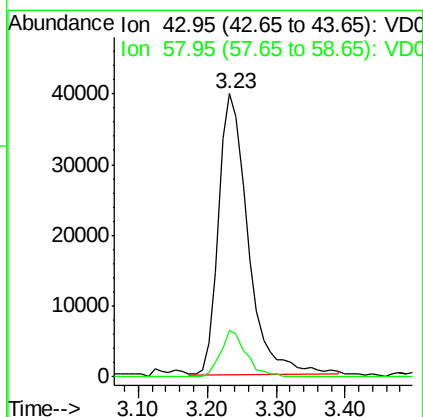
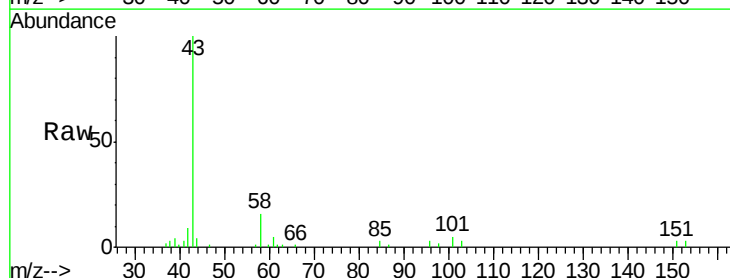
Acq: 20 May 2019 15:17

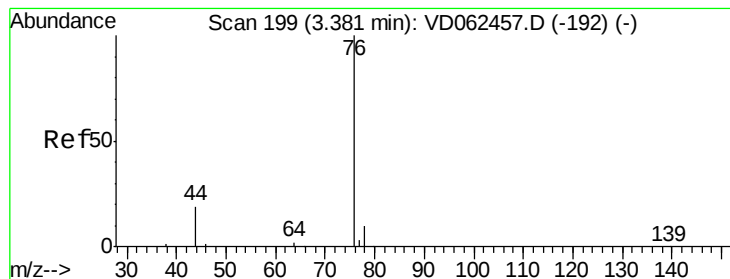
Tgt Ion: 43 Resp: 118859

Ion Ratio Lower Upper

43 100

58 16.4 19.9 29.9#





#17

Carbon Disulfide

Concen: 22.160 ug/l

RT: 3.38 min Scan# 199

Delta R.T. -0.00 min

Lab File: VD062456.D

Acq: 20 May 2019 15:17

Instrument :

MSVOA_D

ClientSampleId :

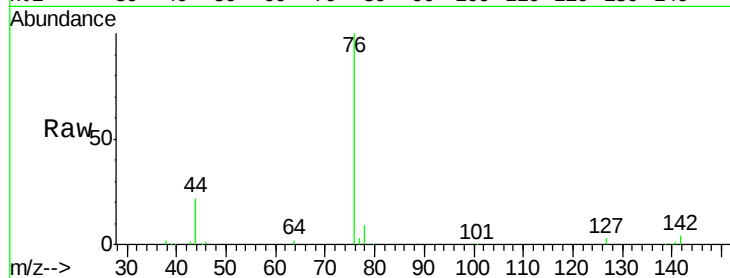
VSTDIC020

Tot Ion: 76 Resp: 317484

Ion Ratio Lower Upper

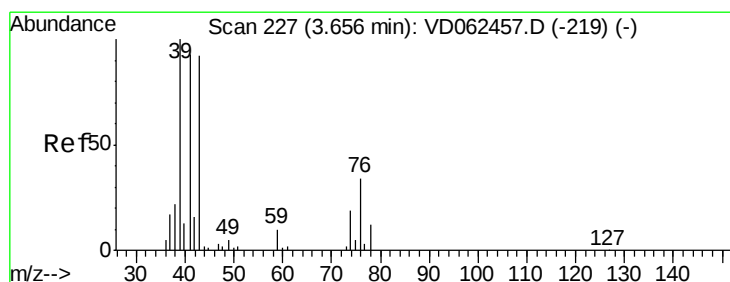
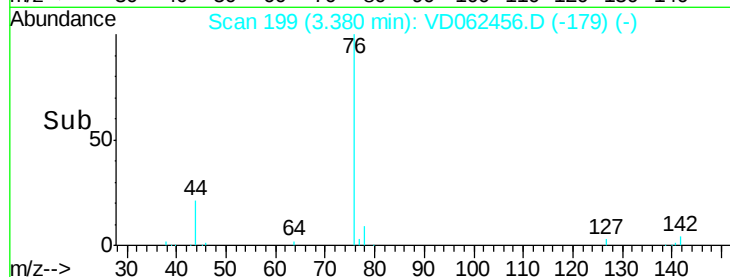
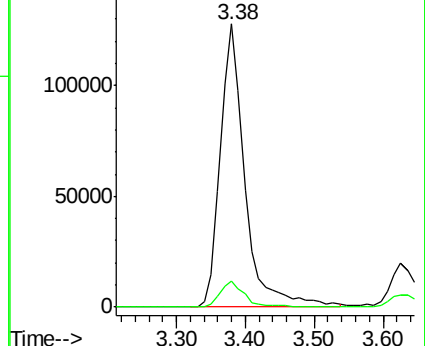
76 100

78 9.0 7.2 10.8



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 18.293 ug/l

RT: 3.66 min Scan# 227

Delta R.T. -0.00 min

Lab File: VD062456.D

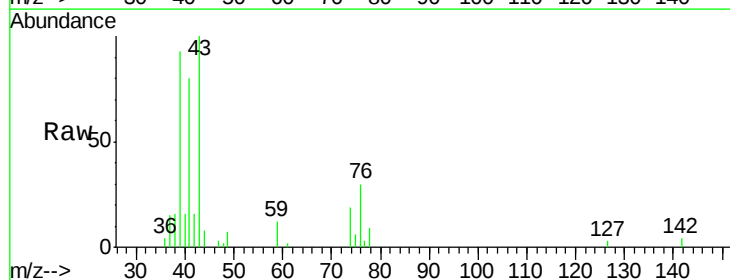
Acq: 20 May 2019 15:17

Tgt Ion: 43 Resp: 45673

Ion Ratio Lower Upper

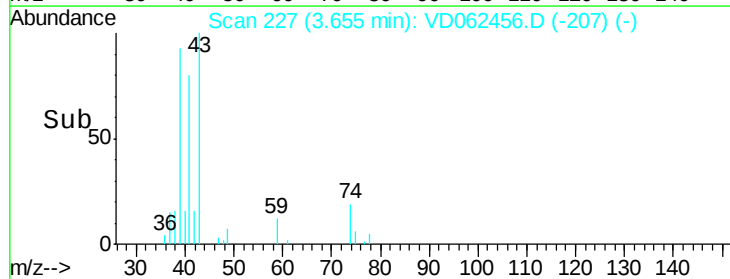
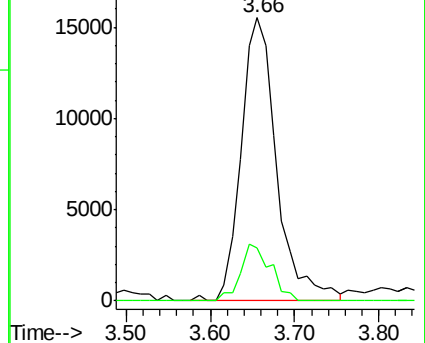
43 100

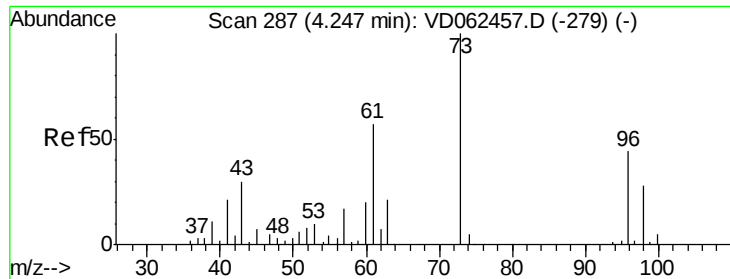
74 18.7 18.0 27.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

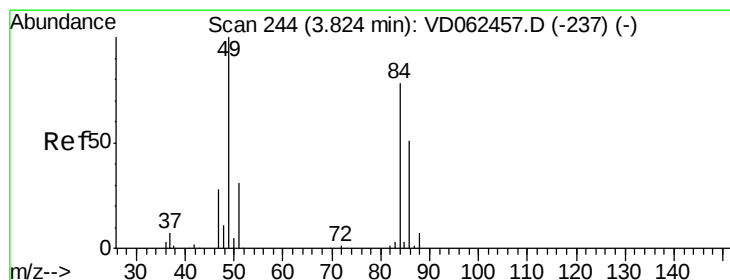
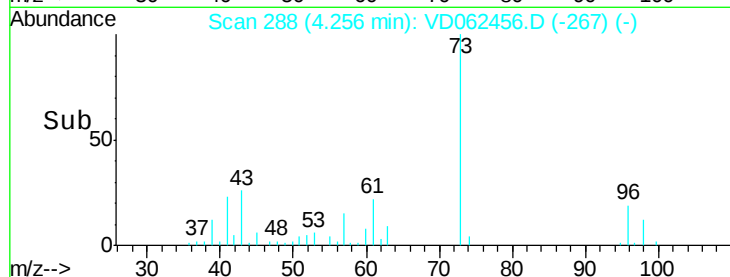
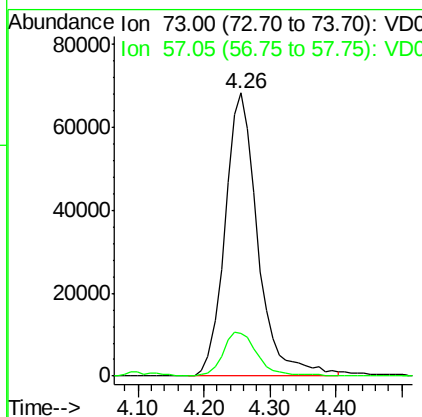
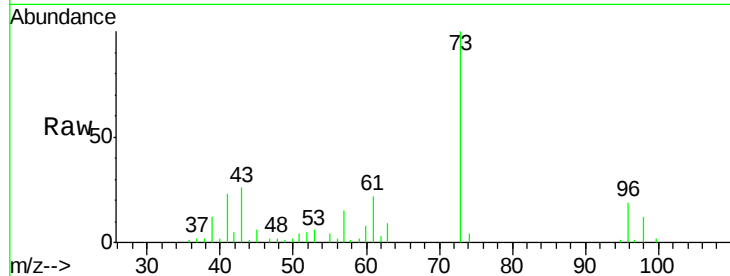




#19
Methyl tert-butyl Ether
Concen: 22.308 ug/l
RT: 4.26 min Scan# 288
Delta R.T. 0.01 min
Lab File: VD062456.D
Acq: 20 May 2019 15:17

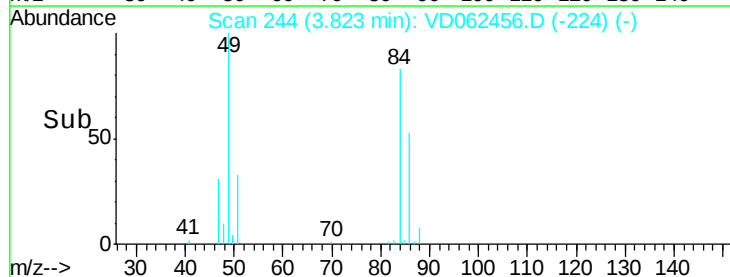
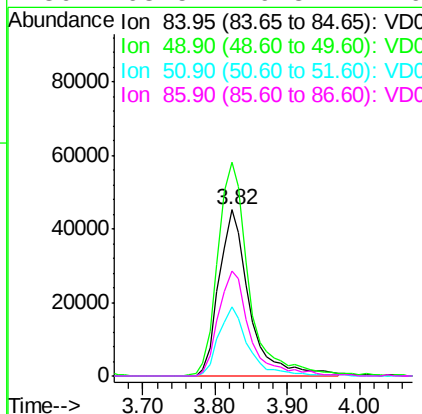
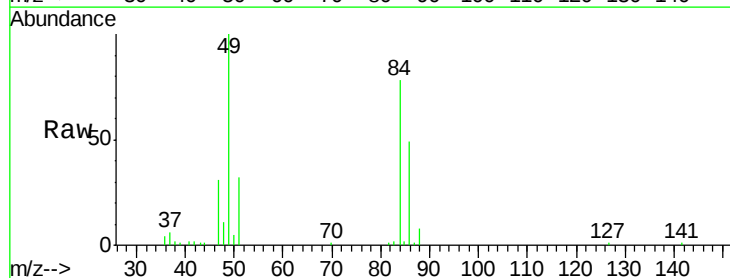
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

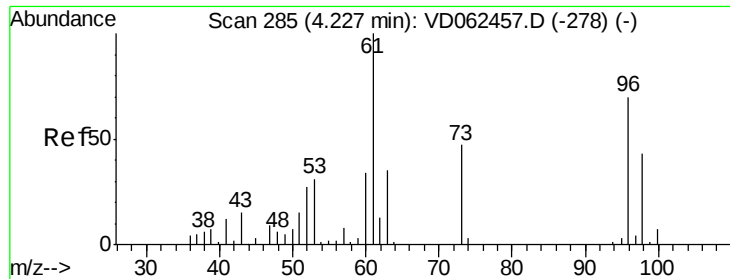
Tot Ion: 73 Resp: 238139
Ion Ratio Lower Upper
73 100
57 14.9 16.3 24.5#



#20
Methylene Chloride
Concen: 24.936 ug/l
RT: 3.82 min Scan# 244
Delta R.T. -0.00 min
Lab File: VD062456.D
Acq: 20 May 2019 15:17

Tgt Ion: 84 Resp: 132533
Ion Ratio Lower Upper
84 100
49 128.5 94.0 141.0
51 41.5 29.0 43.4
86 63.5 49.8 74.6





#21

trans-1,2-Dichloroethene

Concen: 21.940 ug/l

RT: 4.23 min Scan# 285

Delta R.T. -0.00 min

Lab File: VD062456.D

Acq: 20 May 2019 15:17

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

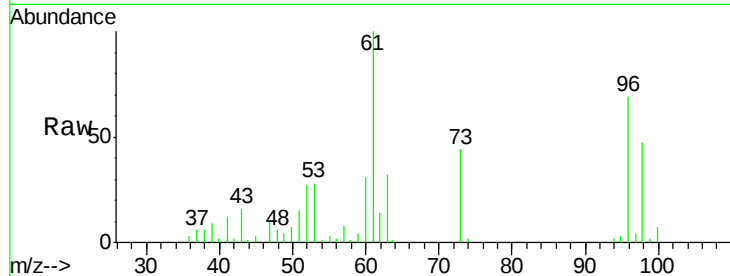
Tot Ion: 96 Resp: 121591

Ion Ratio Lower Upper

96 100

61 144.3 104.4 156.6

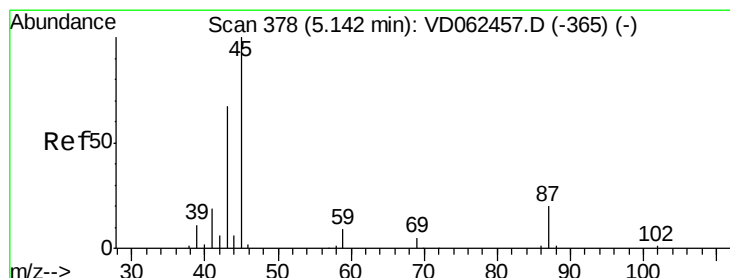
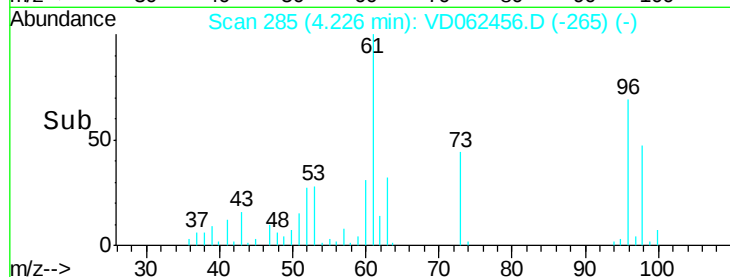
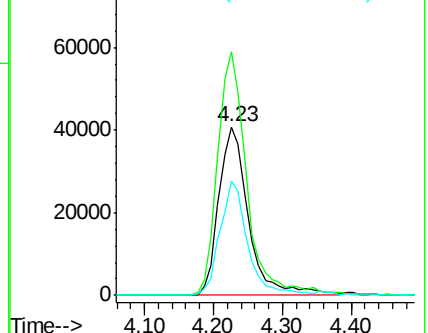
98 68.0 51.8 77.8



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



#22

Diisopropyl ether

Concen: 20.853 ug/l

RT: 5.14 min Scan# 378

Delta R.T. -0.00 min

Lab File: VD062456.D

Acq: 20 May 2019 15:17

Tgt Ion: 45 Resp: 321332

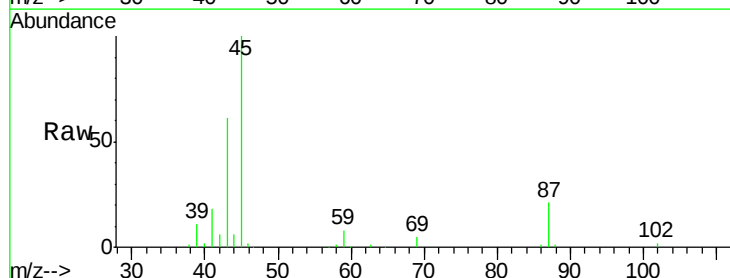
Ion Ratio Lower Upper

45 100

43 61.4 46.2 69.2

87 21.3 15.9 23.9

59 8.4 7.9 11.9

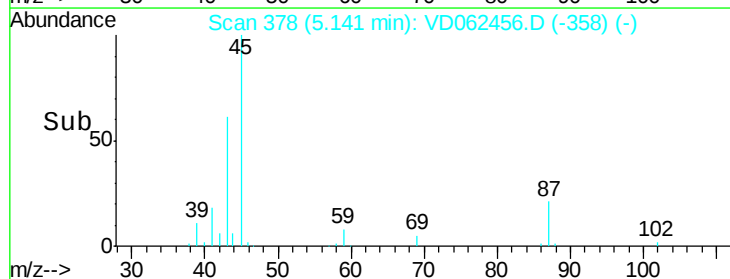
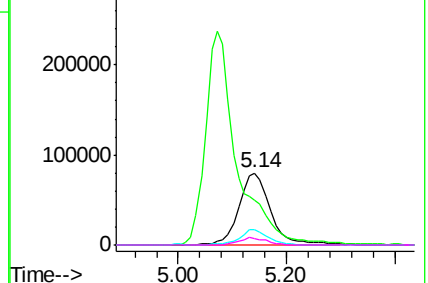


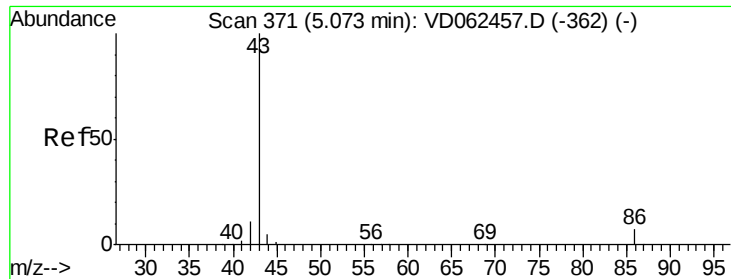
Abundance Ion 45.05 (44.75 to 45.75): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 87.00 (86.70 to 87.70): VDC

Ion 58.95 (58.65 to 59.65): VDC





#23

Vinyl Acetate

Concen: 115.615 ug/l

RT: 5.07 min Scan# 371

Delta R.T. -0.00 min

Lab File: VD062456.D

Acq: 20 May 2019 15:17

Instrument :

MSVOA_D

ClientSampled :

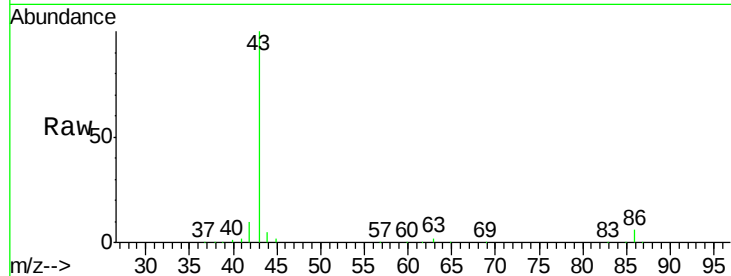
VSTDIC020

Tot Ion: 43 Resp: 939961

Ion Ratio Lower Upper

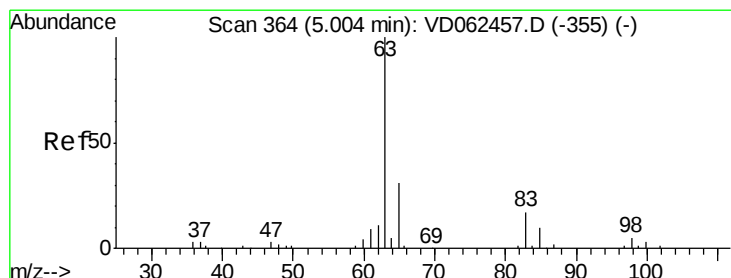
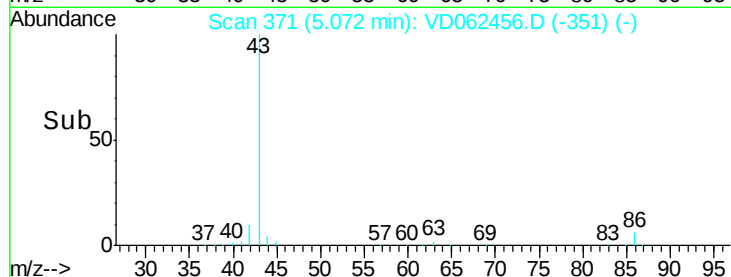
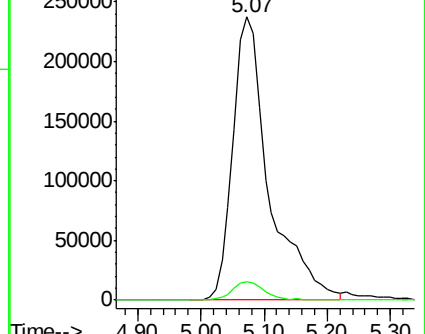
43 100

86 6.5 6.4 9.6



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 22.577 ug/l

RT: 4.99 min Scan# 363

Delta R.T. -0.01 min

Lab File: VD062456.D

Acq: 20 May 2019 15:17

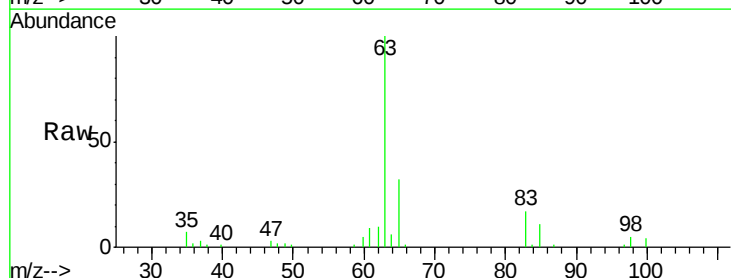
Tgt Ion: 63 Resp: 209873

Ion Ratio Lower Upper

63 100

98 5.0 2.8 8.4

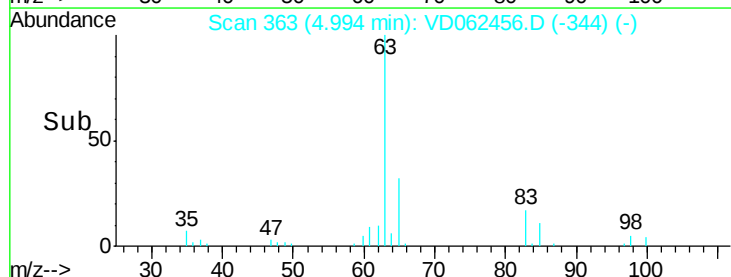
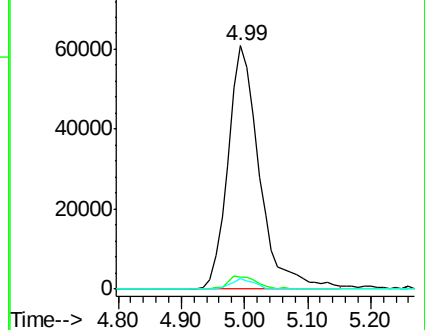
100 4.4 1.8 5.5

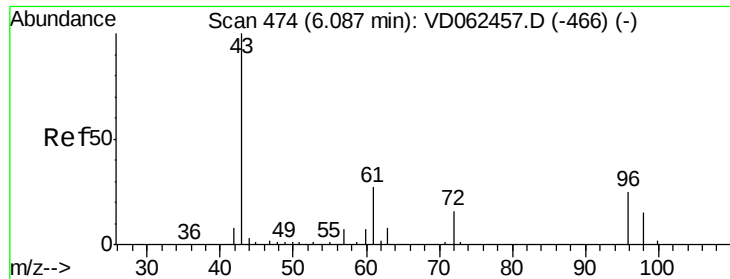


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 92.411 ug/l

RT: 6.09 min Scan# 474

Delta R.T. -0.00 min

Lab File: VD062456.D

Acq: 20 May 2019 15:17

Instrument :

MSVOA_D

ClientSampleId :

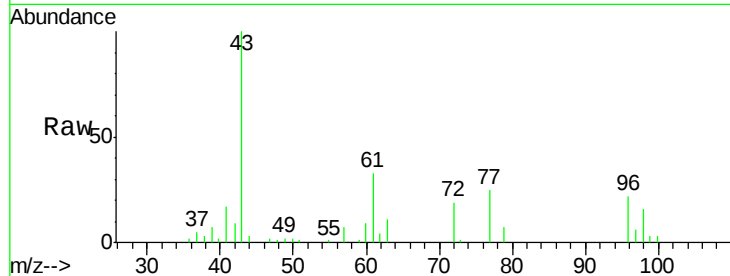
VSTDIC020

Tot Ion: 43 Resp: 128309

Ion Ratio Lower Upper

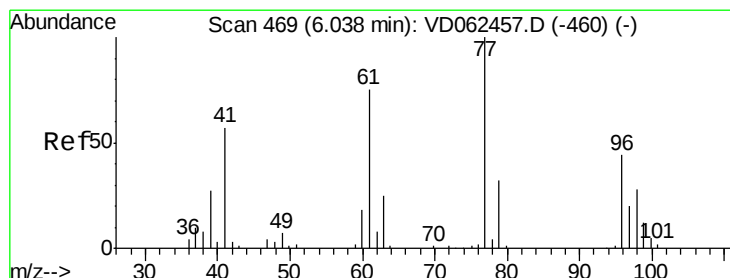
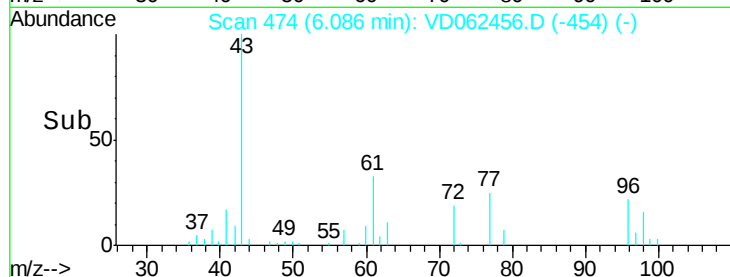
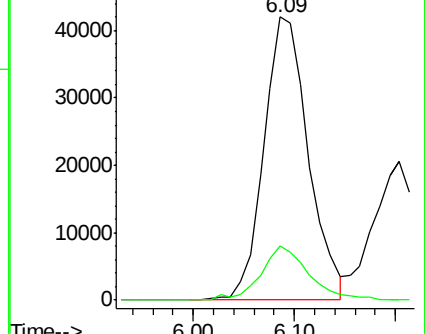
43 100

72 19.2 16.2 24.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 24.670 ug/l

RT: 6.04 min Scan# 469

Delta R.T. -0.00 min

Lab File: VD062456.D

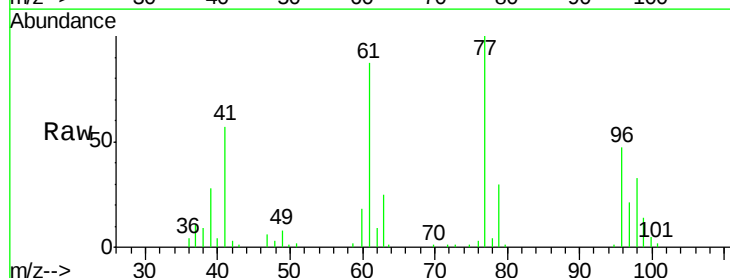
Acq: 20 May 2019 15:17

Tgt Ion: 77 Resp: 228442

Ion Ratio Lower Upper

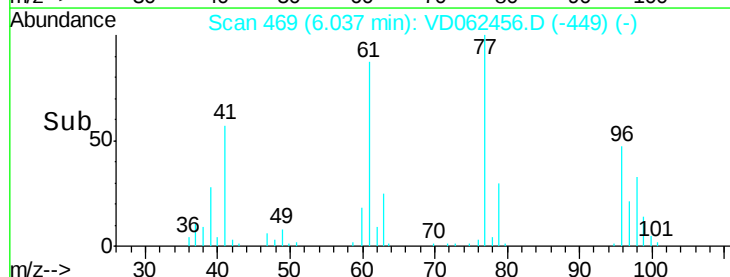
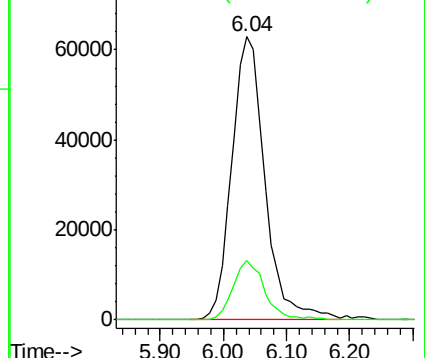
77 100

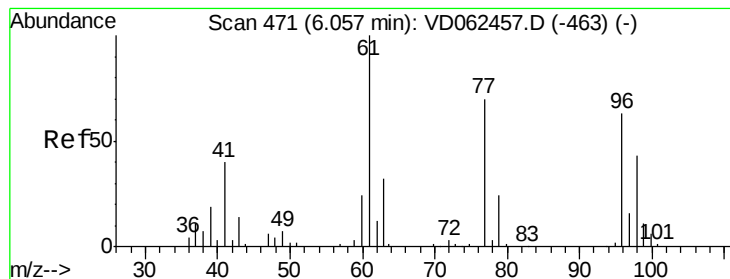
97 20.8 11.9 35.9



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



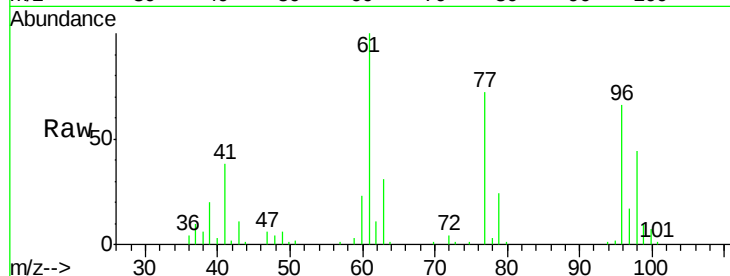


#27

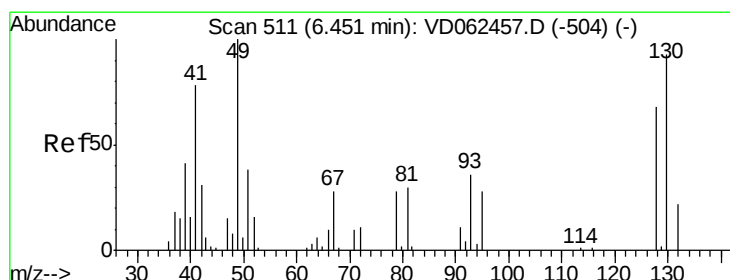
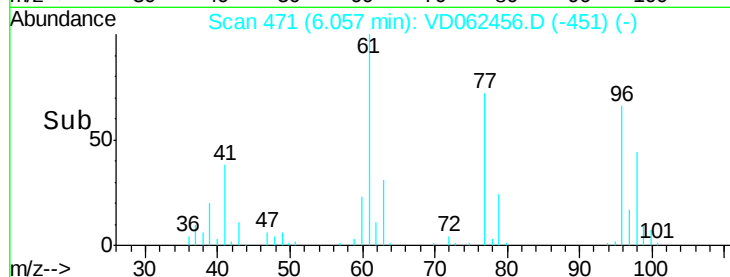
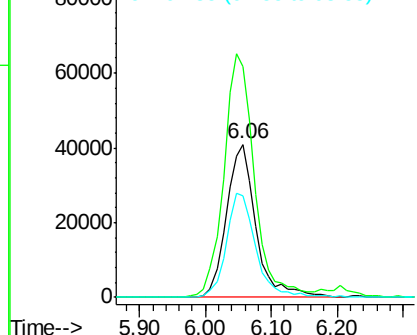
cis-1,2-Dichloroethene
Concen: 20.642 ug/l
RT: 6.06 min Scan# 471
Delta R.T. -0.00 min
Lab File: VD062456.D
Acq: 20 May 2019 15:17

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion: 96 Resp: 128046
Ion Ratio Lower Upper
96 100
61 150.7 0.0 279.8
98 66.6 0.0 136.0



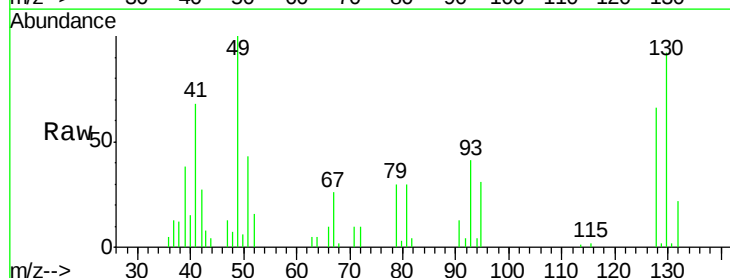
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



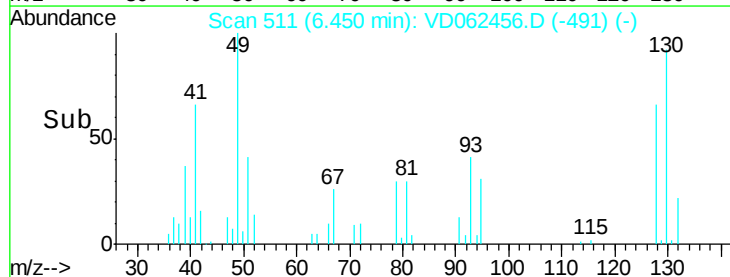
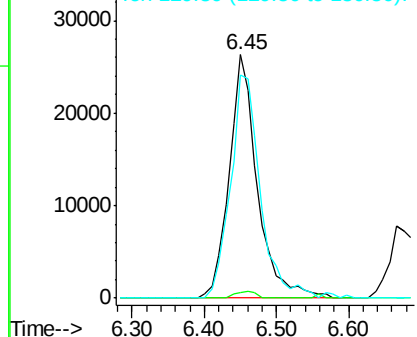
#28

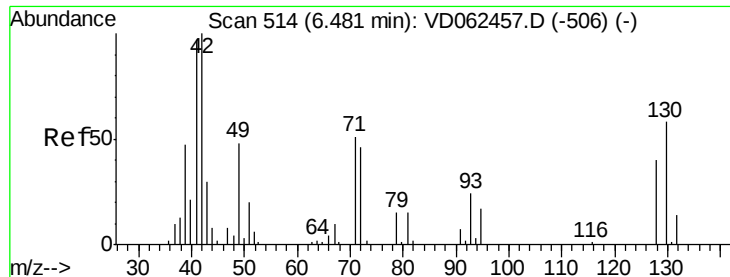
Bromochloromethane
Concen: 19.470 ug/l
RT: 6.45 min Scan# 511
Delta R.T. -0.00 min
Lab File: VD062456.D
Acq: 20 May 2019 15:17

Tgt Ion: 49 Resp: 71207
Ion Ratio Lower Upper
49 100
129 2.4 0.0 6.6
130 91.6 86.7 130.1



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

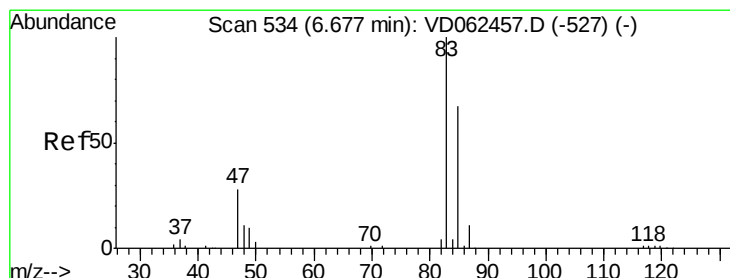
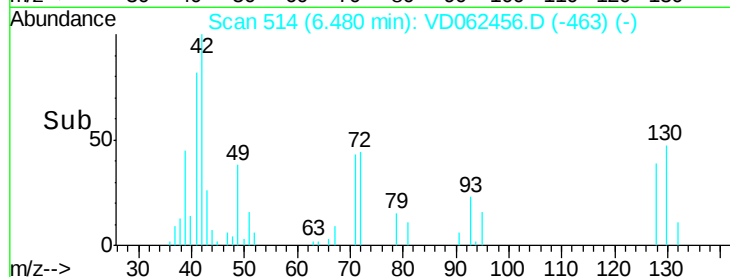
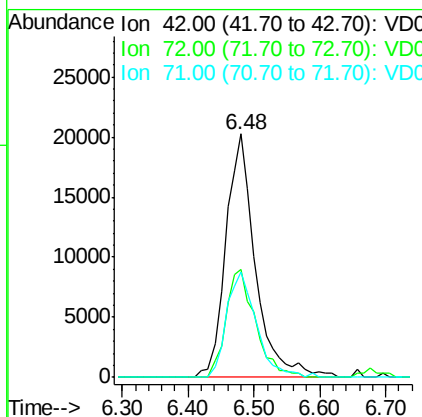
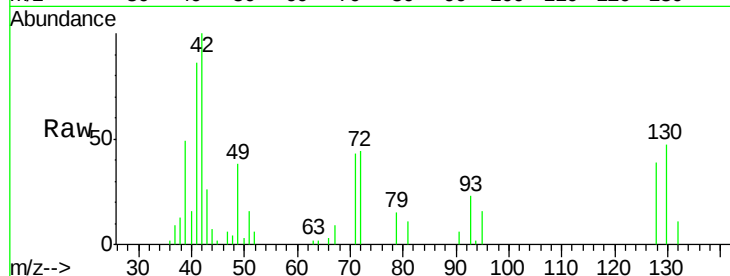




#29
Tetrahydrofuran
Concen: 99.358 ug/l
RT: 6.48 min Scan# 514
Delta R.T. -0.00 min
Lab File: VD062456.D
Acq: 20 May 2019 15:17

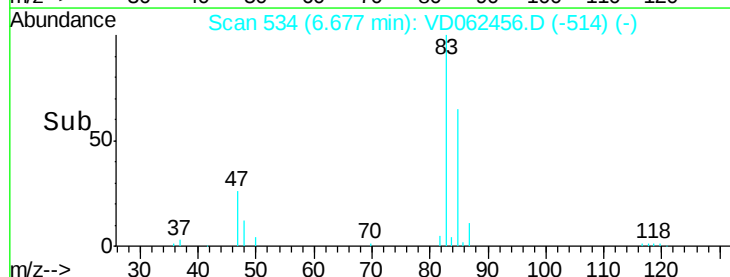
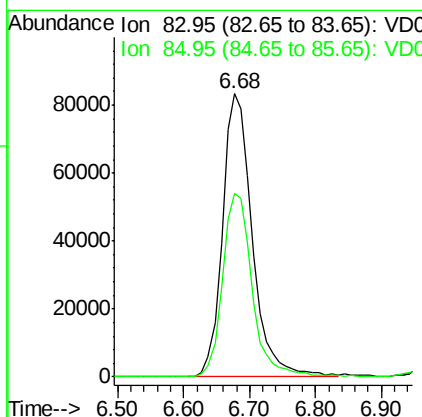
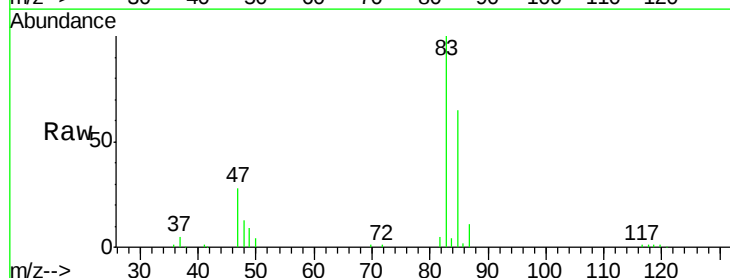
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

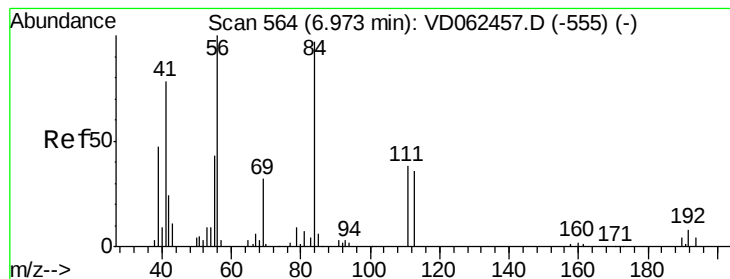
Tot Ion: 42 Resp: 63564
Ion Ratio Lower Upper
42 100
72 44.2 37.8 56.6
71 43.7 36.7 55.1



#30
Chloroform
Concen: 23.510 ug/l
RT: 6.68 min Scan# 534
Delta R.T. -0.00 min
Lab File: VD062456.D
Acq: 20 May 2019 15:17

Tgt Ion: 83 Resp: 263391
Ion Ratio Lower Upper
83 100
85 64.8 51.7 77.5





#31

Cyclohexane

Concen: 21.085 ug/l

RT: 6.97 min Scan# 564

Delta R.T. -0.00 min

Lab File: VD062456.D

Acq: 20 May 2019 15:17

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

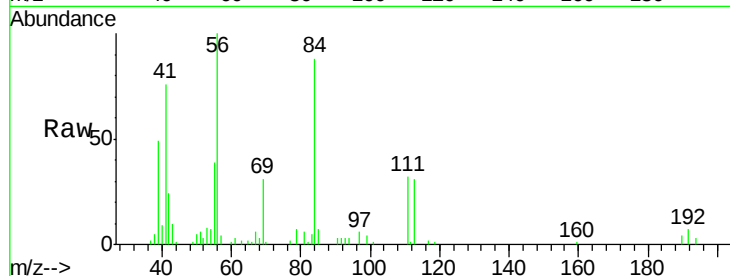
Tot Ion: 56 Resp: 134284

Ion Ratio Lower Upper

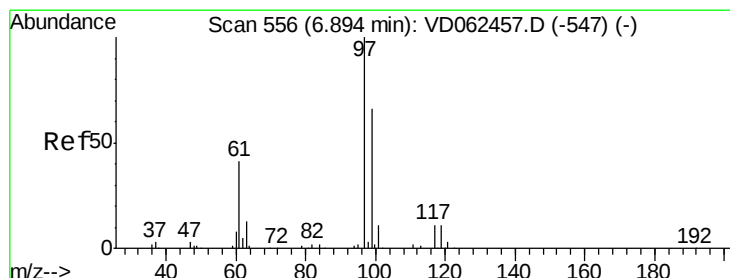
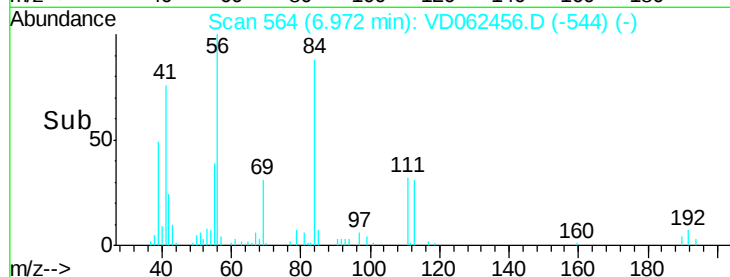
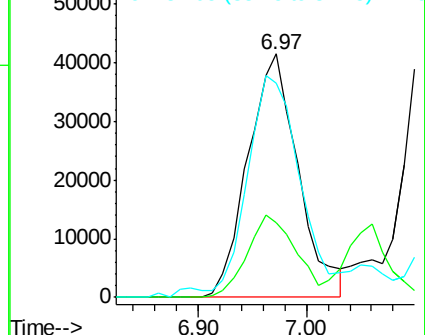
56 100

69 30.5 25.8 38.6

84 87.8 72.2 108.4



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



#32

1,1,1-Trichloroethane

Concen: 24.584 ug/l

RT: 6.88 min Scan# 555

Delta R.T. -0.01 min

Lab File: VD062456.D

Acq: 20 May 2019 15:17

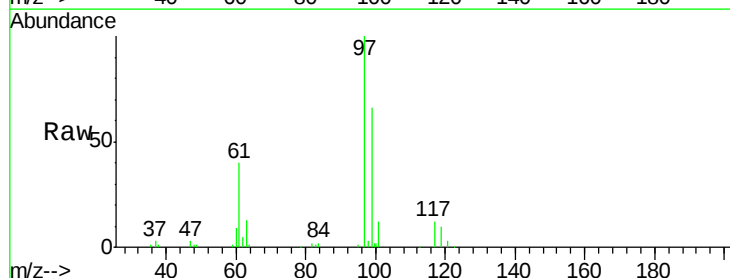
Tgt Ion: 97 Resp: 260319

Ion Ratio Lower Upper

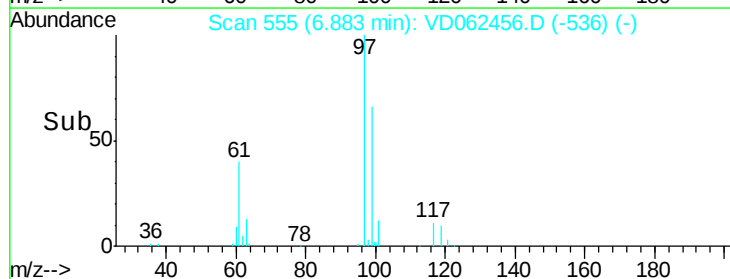
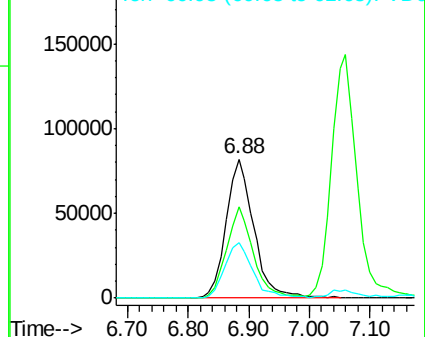
97 100

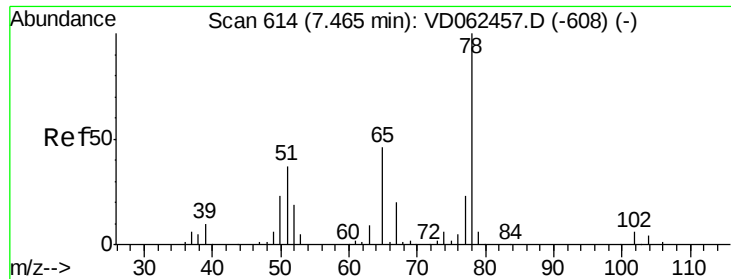
99 65.7 52.2 78.2

61 40.4 32.4 48.6



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





#33

1,2-Dichloroethane-d4

Concen: 24.012 ug/l

RT: 7.46 min Scan# 614

Delta R.T. -0.00 min

Lab File: VD062456.D

Acq: 20 May 2019 15:17

Instrument :

MSVOA_D

ClientSampleId :

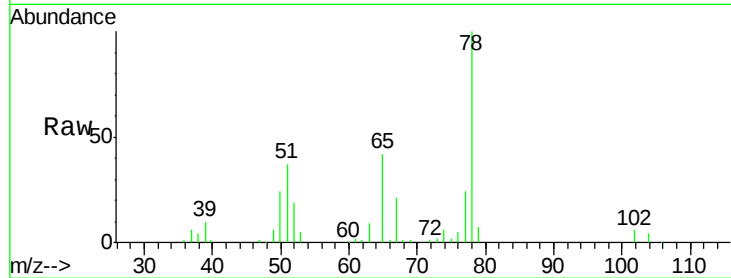
VSTDIC020

Tot Ion: 65 Resp: 145751

Ion Ratio Lower Upper

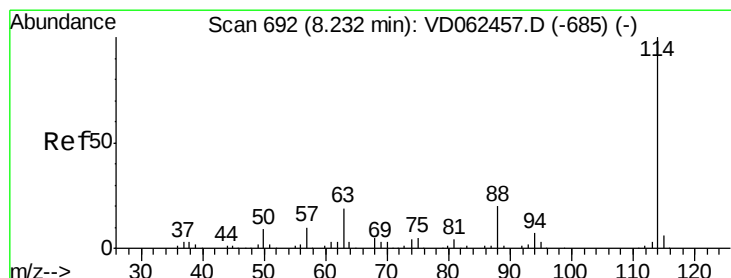
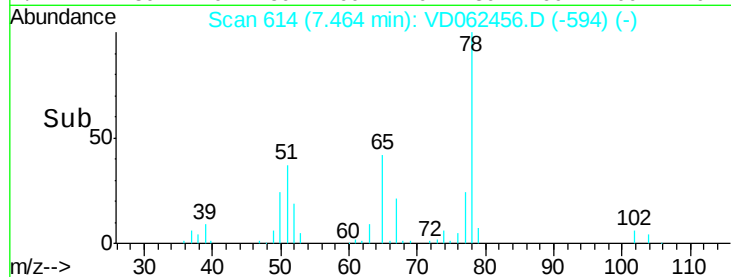
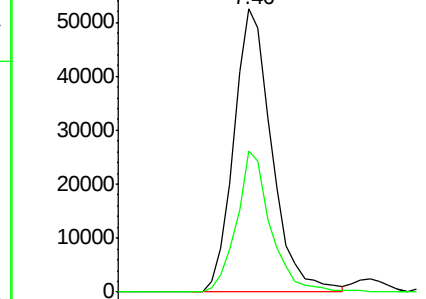
65 100

67 49.9 0.0 98.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.23 min Scan# 692

Delta R.T. -0.00 min

Lab File: VD062456.D

Acq: 20 May 2019 15:17

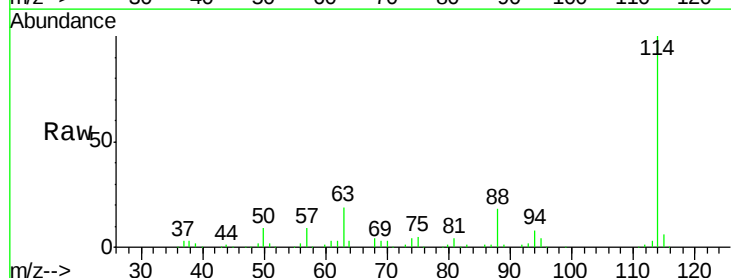
Tgt Ion: 114 Resp: 917618

Ion Ratio Lower Upper

114 100

63 19.2 0.0 32.4

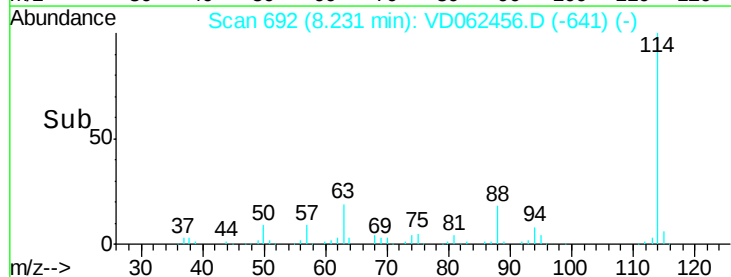
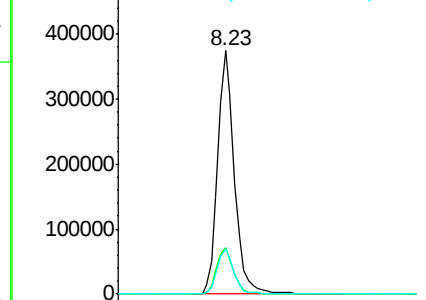
88 18.3 0.0 33.6

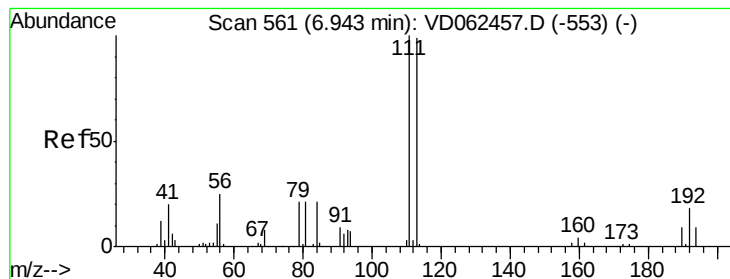


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 21.504 ug/l

RT: 6.94 min Scan# 561

Delta R.T. -0.00 min

Lab File: VD062456.D

Acq: 20 May 2019 15:17

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

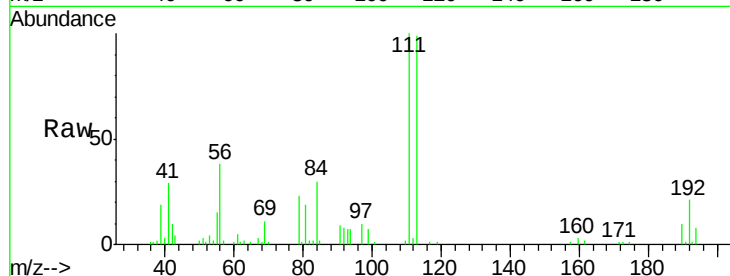
Tot Ion:113 Resp: 163722

Ion Ratio Lower Upper

113 100

111 101.4 78.5 117.7

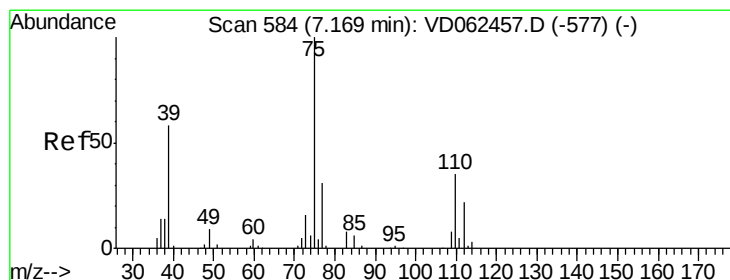
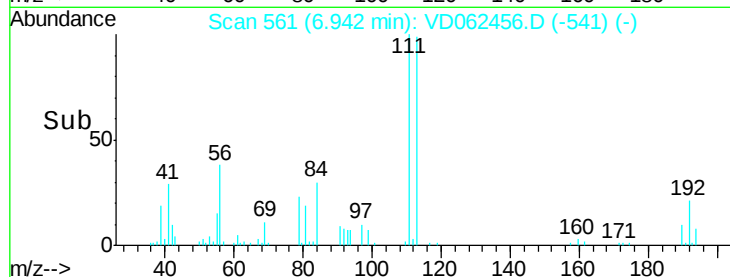
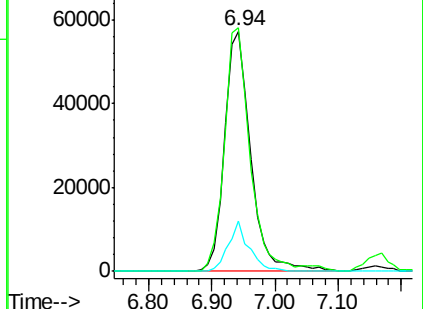
192 21.1 13.0 19.4#



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 25.935 ug/l

RT: 7.16 min Scan# 583

Delta R.T. -0.01 min

Lab File: VD062456.D

Acq: 20 May 2019 15:17

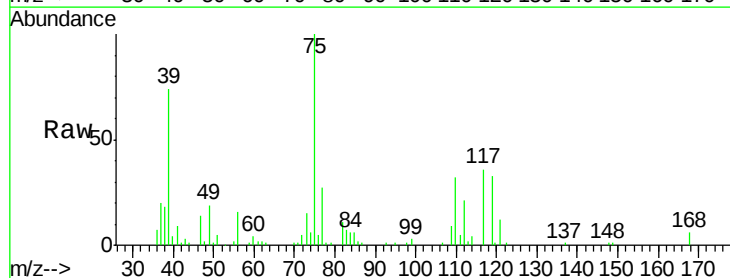
Tgt Ion: 75 Resp: 195123

Ion Ratio Lower Upper

75 100

110 31.5 19.1 57.1

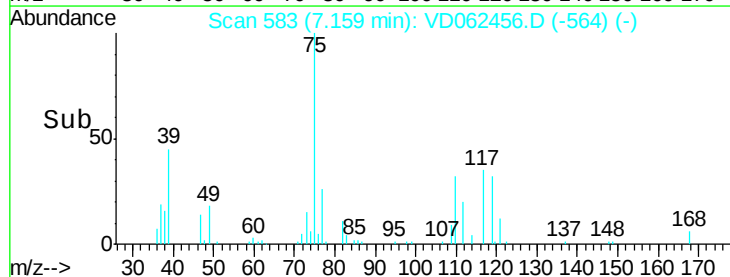
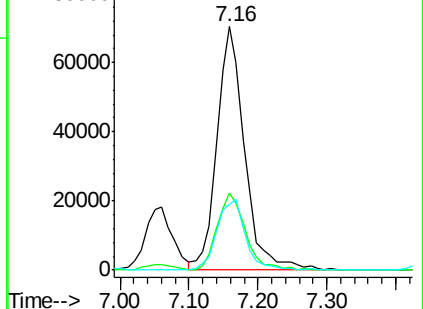
77 27.0 25.6 38.4

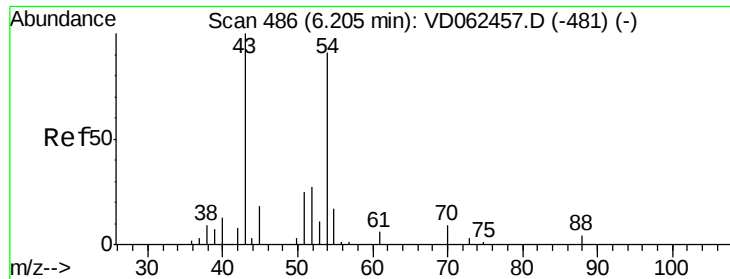


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): VDC

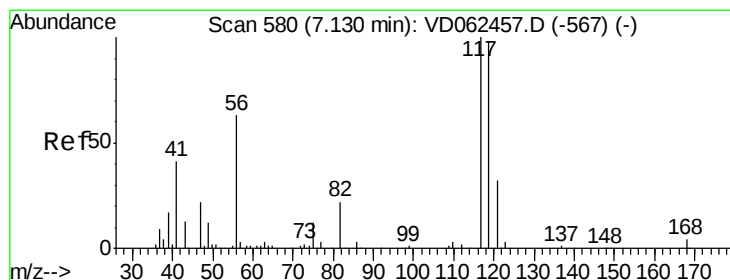
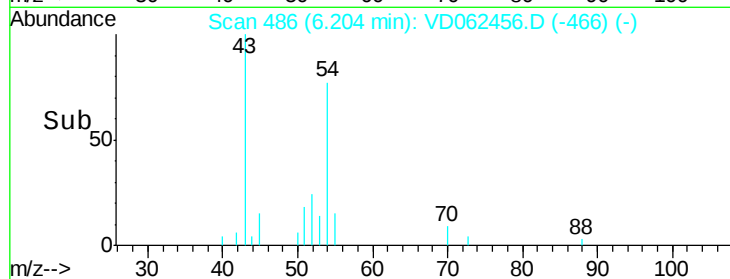
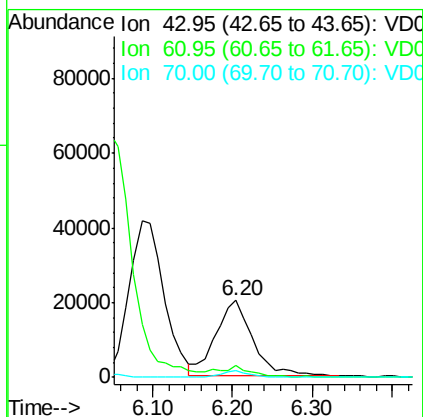
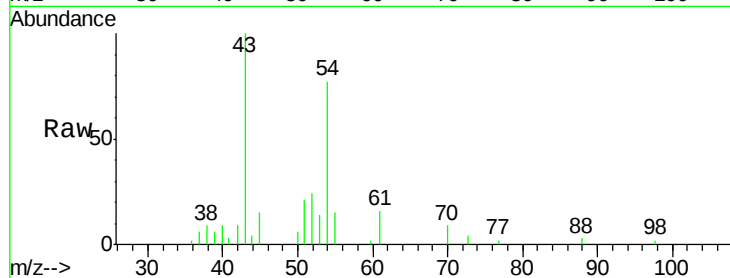




#37
Ethyl Acetate
Concen: 20.559 ug/l
RT: 6.20 min Scan# 486
Delta R.T. -0.00 min
Lab File: VD062456.D
Acq: 20 May 2019 15:17

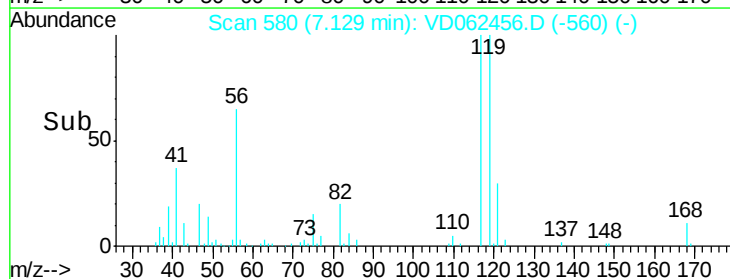
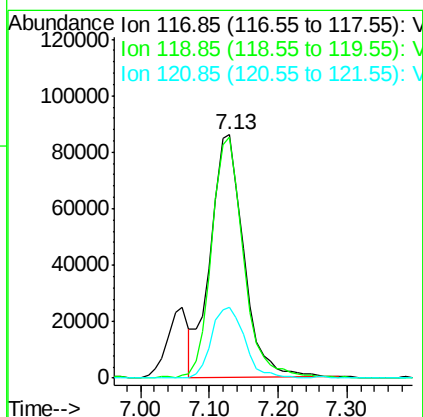
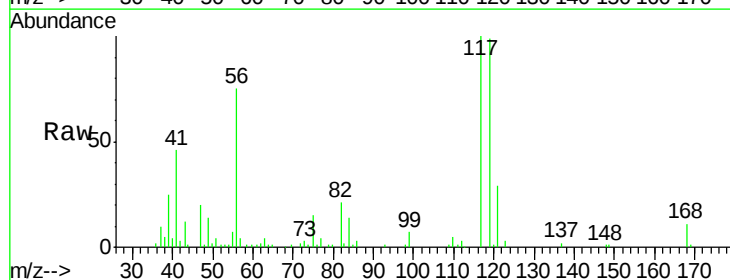
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

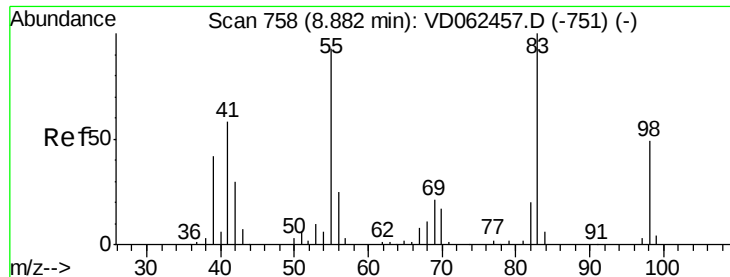
Tot Ion: 43 Resp: 65598
Ion Ratio Lower Upper
43 100
61 15.8 14.7 22.1
70 8.5 7.8 11.6



#38
Carbon Tetrachloride
Concen: 27.612 ug/l
RT: 7.13 min Scan# 580
Delta R.T. -0.00 min
Lab File: VD062456.D
Acq: 20 May 2019 15:17

Tgt Ion: 117 Resp: 287537
Ion Ratio Lower Upper
117 100
119 99.2 75.8 113.8
121 29.2 25.9 38.9

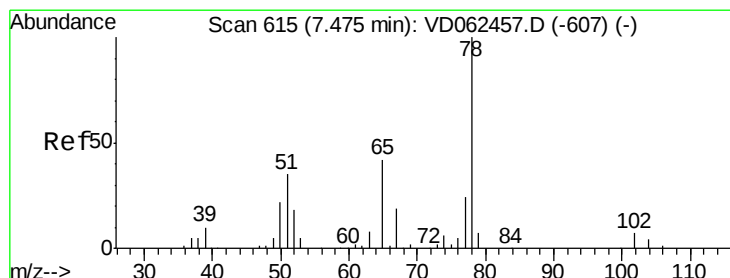
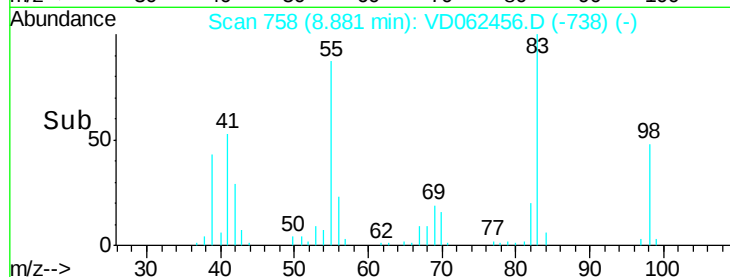
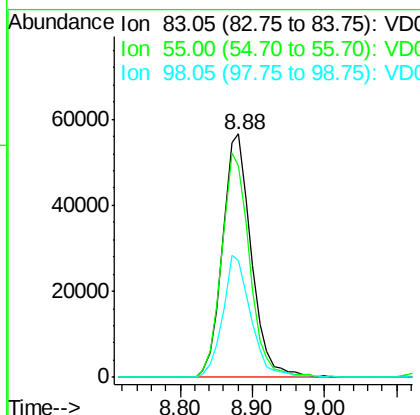
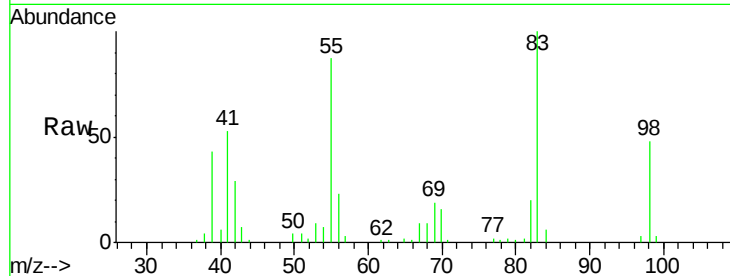




#39
Methvlcvclohexane
Concen: 21.678 ug/l
RT: 8.88 min Scan# 758
Delta R.T. -0.00 min
Lab File: VD062456.D
Acq: 20 May 2019 15:17

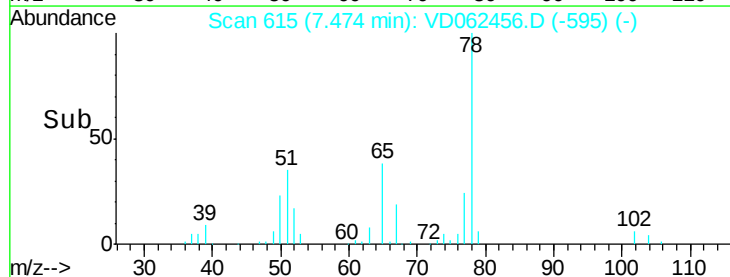
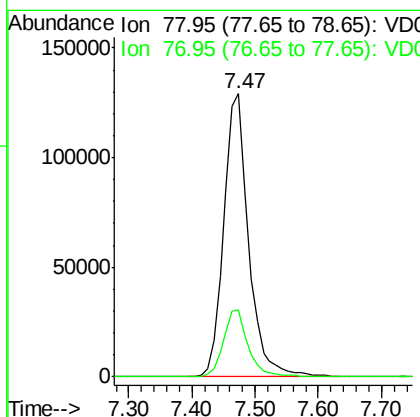
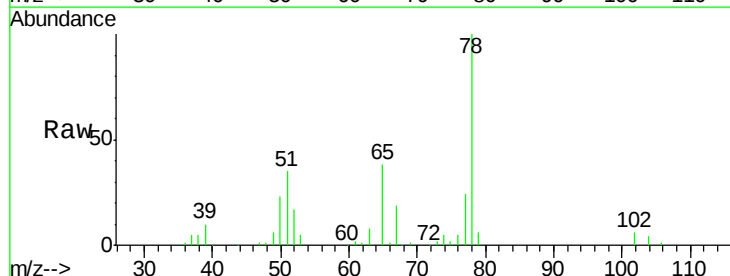
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

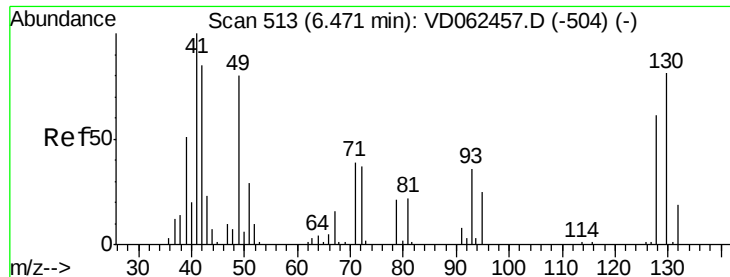
Tot Ion: 83 Resp: 156265
Ion Ratio Lower Upper
83 100
55 86.8 68.2 102.4
98 47.9 38.2 57.4



#40
Benzene
Concen: 20.766 ug/l
RT: 7.47 min Scan# 615
Delta R.T. -0.00 min
Lab File: VD062456.D
Acq: 20 May 2019 15:17

Tgt Ion: 78 Resp: 352789
Ion Ratio Lower Upper
78 100
77 23.8 19.7 29.5





#41

Methacrylonitrile

Concen: 20.809 ug/l

RT: 6.47 min Scan# 513

Delta R.T. -0.00 min

Lab File: VD062456.D

Acq: 20 May 2019 15:17

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 41 Resp: 81138

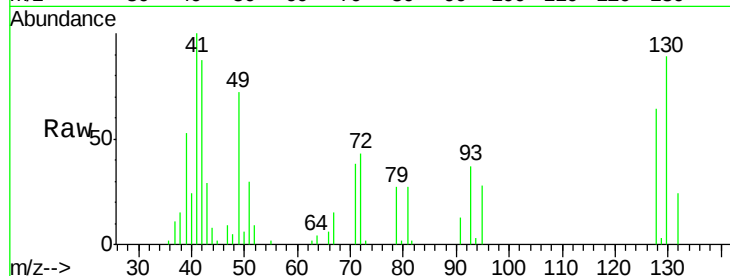
Ion Ratio Lower Upper

41 100

39 53.2 34.1 51.1#

67 14.9 23.8 35.6#

52 8.8 8.8 13.2

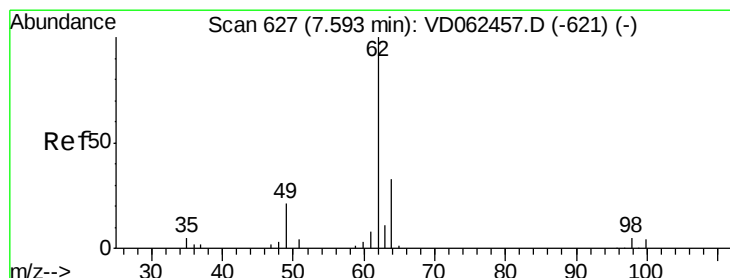
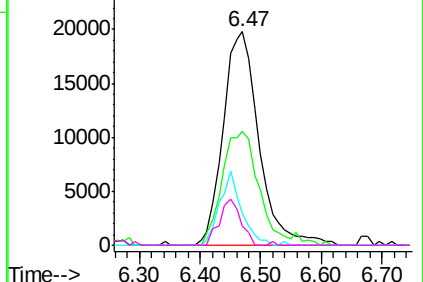
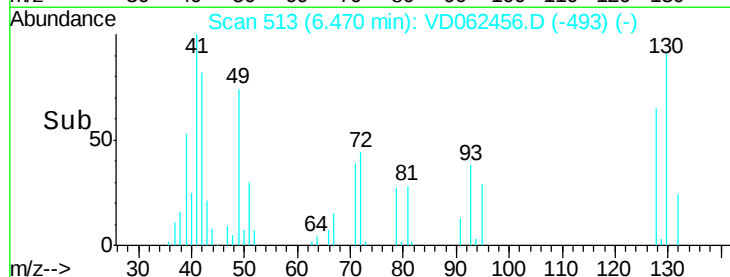


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



#42

1,2-Dichloroethane

Concen: 26.063 ug/l

RT: 7.59 min Scan# 627

Delta R.T. -0.00 min

Lab File: VD062456.D

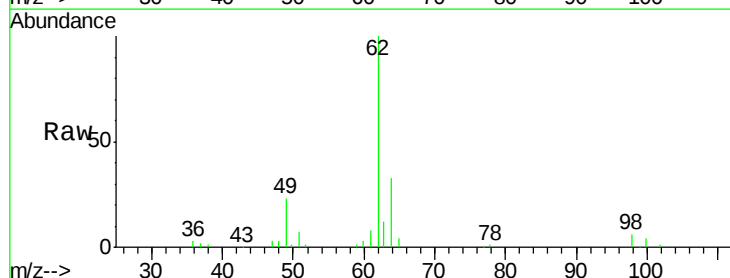
Acq: 20 May 2019 15:17

Tgt Ion: 62 Resp: 187600

Ion Ratio Lower Upper

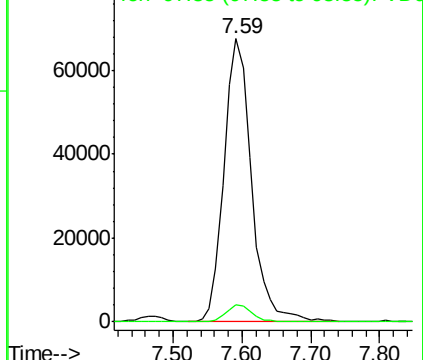
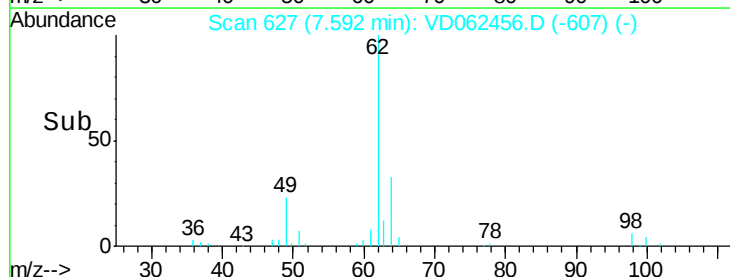
62 100

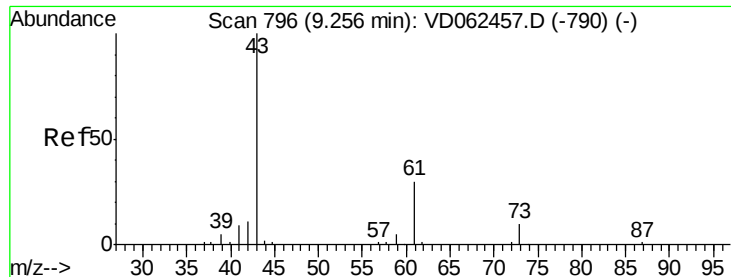
98 6.3 0.0 17.8



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 97.85 (97.55 to 98.55): VDC





#43

Isopropyl Acetate

Concen: 19.528 ug/l

RT: 9.25 min Scan# 796

Delta R.T. -0.00 min

Lab File: VD062456.D

Acq: 20 May 2019 15:17

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

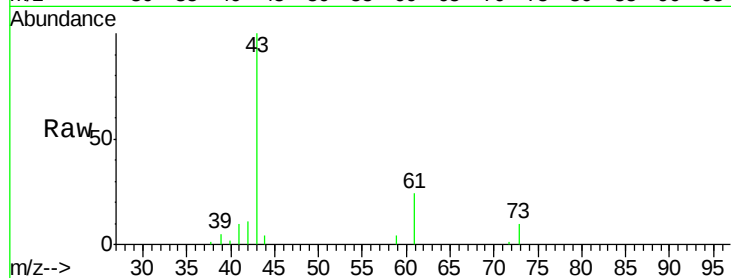
Tot Ion: 43 Resp: 88367

Ion Ratio Lower Upper

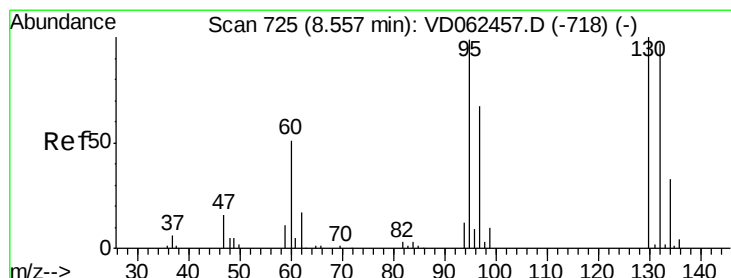
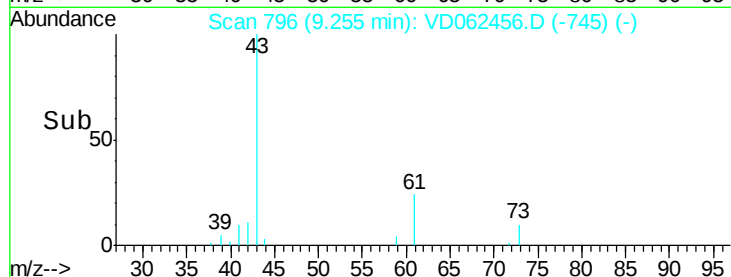
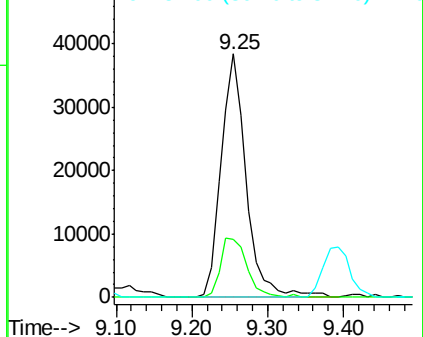
43 100

61 23.6 25.1 37.7#

87 0.0 0.0 0.0



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



#44

Trichloroethene

Concen: 21.696 ug/l

RT: 8.56 min Scan# 725

Delta R.T. -0.00 min

Lab File: VD062456.D

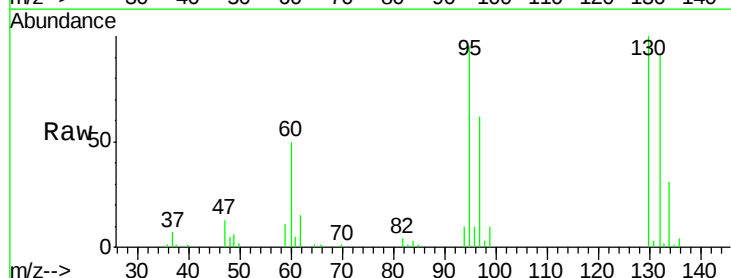
Acq: 20 May 2019 15:17

Tgt Ion:130 Resp: 140453

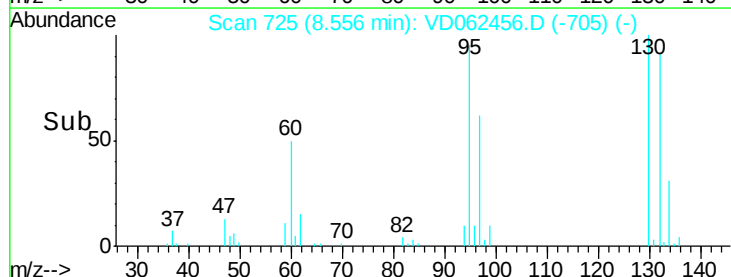
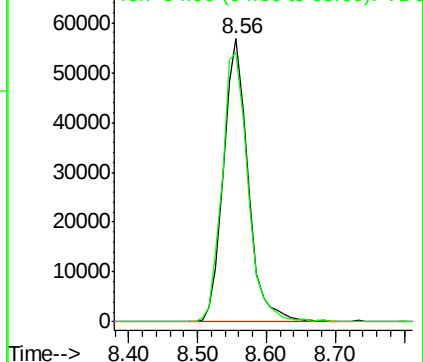
Ion Ratio Lower Upper

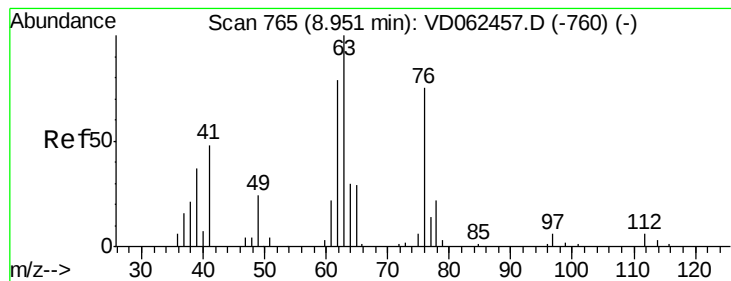
130 100

95 95.2 0.0 174.0



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





#45

1,2-Dichloropropane

Concen: 19.731 ug/l

RT: 8.95 min Scan# 765

Delta R.T. -0.00 min

Lab File: VD062456.D

Acq: 20 May 2019 15:17

Instrument :

MSVOA_D

ClientSampleId :

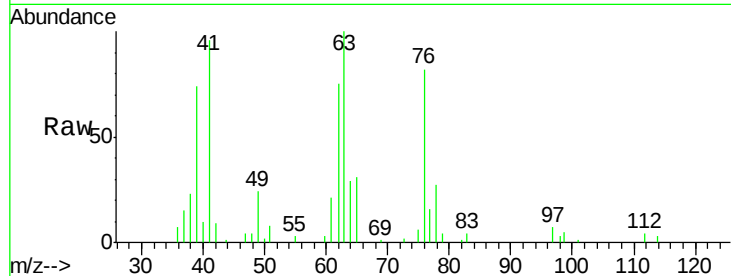
VSTDIC020

Tot Ion: 63 Resp: 82915

Ion Ratio Lower Upper

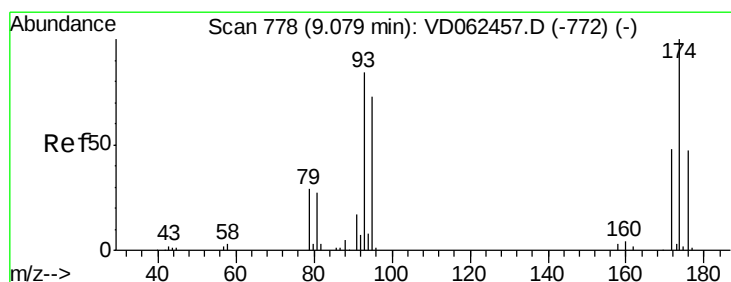
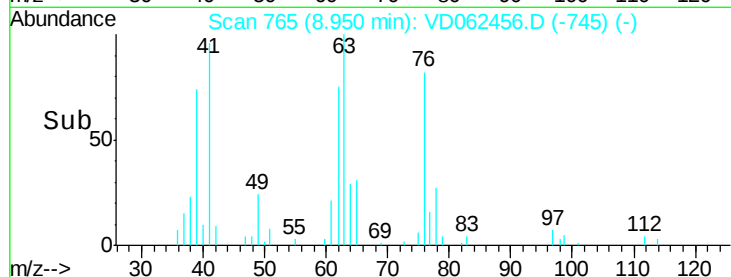
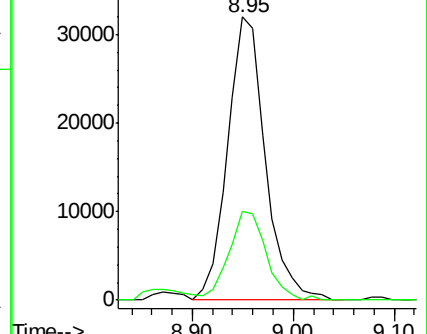
63 100

65 31.3 23.8 35.6



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#46

Dibromomethane

Concen: 21.877 ug/l

RT: 9.08 min Scan# 778

Delta R.T. -0.00 min

Lab File: VD062456.D

Acq: 20 May 2019 15:17

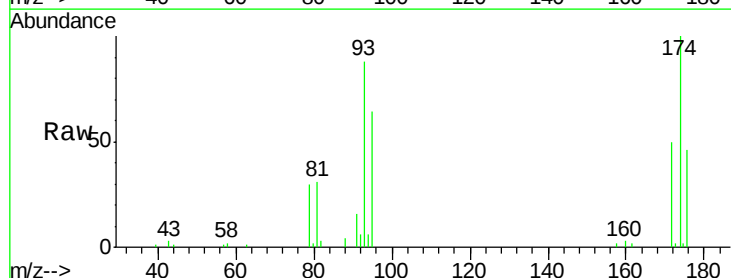
Tgt Ion: 93 Resp: 74759

Ion Ratio Lower Upper

93 100

95 72.5 64.8 97.2

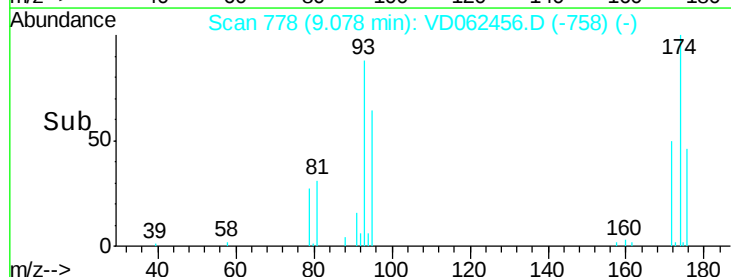
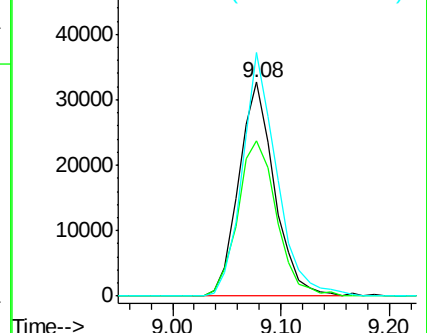
174 113.7 79.3 118.9

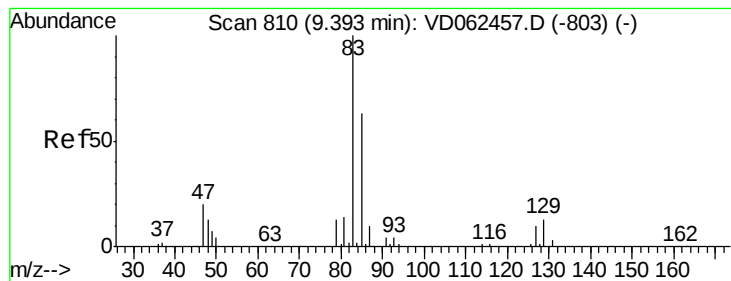


Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V





#47

Bromodichloromethane

Concen: 22.978 ug/l

RT: 9.39 min Scan# 810

Delta R.T. -0.00 min

Lab File: VD062456.D

Acq: 20 May 2019 15:17

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

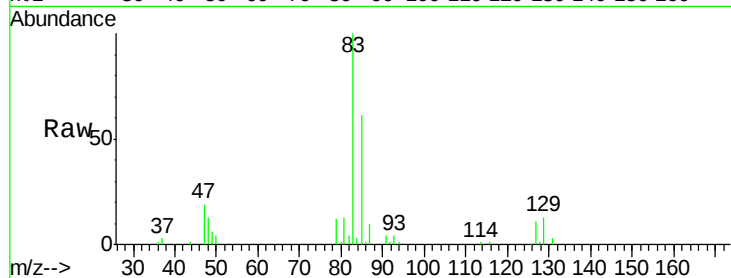
Tot Ion: 83 Resp: 192064

Ion Ratio Lower Upper

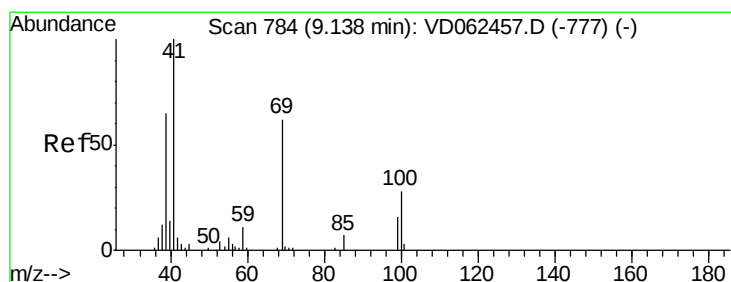
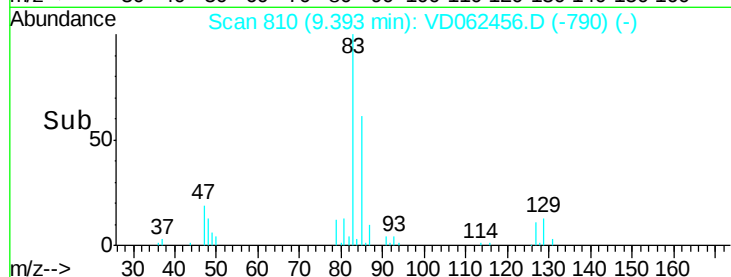
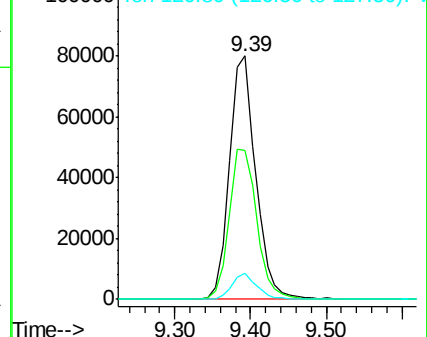
83 100

85 61.0 50.9 76.3

127 10.5 8.1 12.1



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



#48

Methyl methacrylate

Concen: 21.419 ug/l

RT: 9.14 min Scan# 784

Delta R.T. -0.00 min

Lab File: VD062456.D

Acq: 20 May 2019 15:17

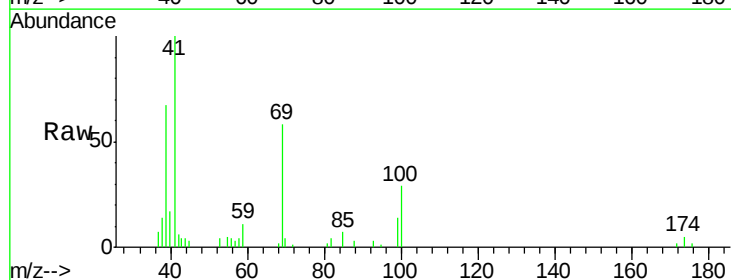
Tgt Ion: 41 Resp: 59700

Ion Ratio Lower Upper

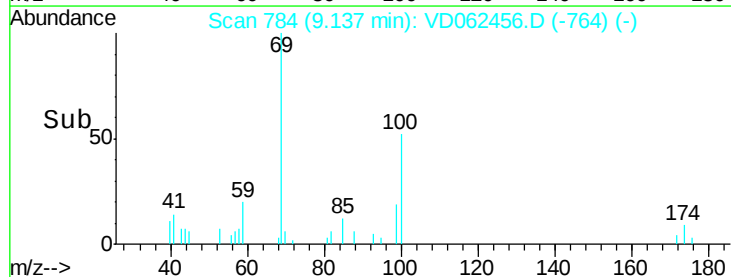
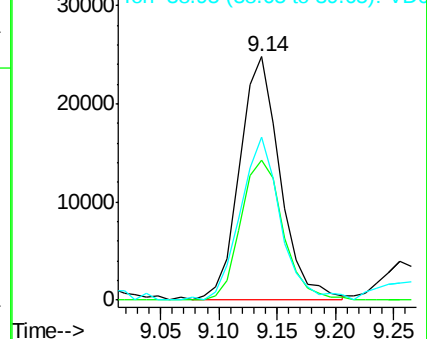
41 100

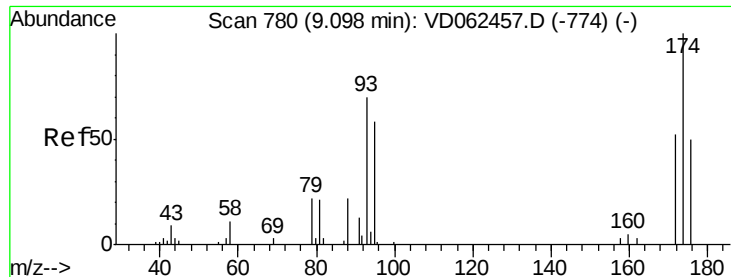
69 57.7 64.2 96.2#

39 67.2 46.8 70.2



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





#49

1,4-Dioxane

Concen: 368.203 ug/l

RT: 9.10 min Scan# 780

Delta R.T. -0.00 min

Lab File: VD062456.D

Acq: 20 May 2019 15:17

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

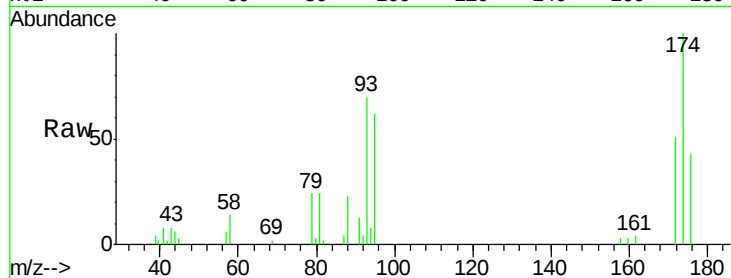
Tot Ion: 88 Resp: 11073

Ion Ratio Lower Upper

88 100

43 36.4 23.4 35.0#

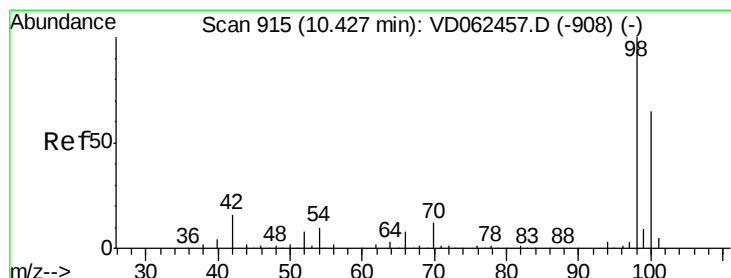
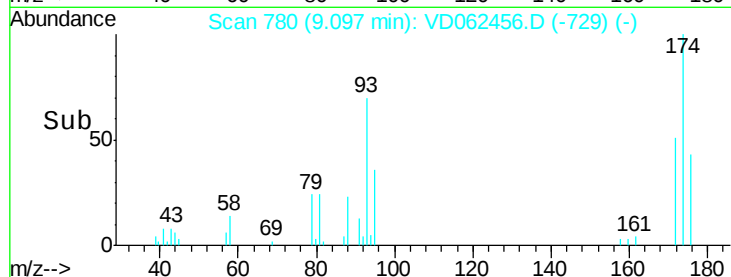
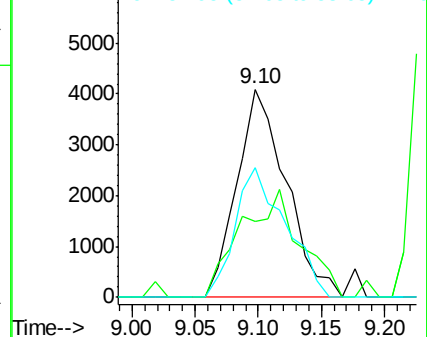
58 62.2 44.0 66.0



Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 57.95 (57.65 to 58.65): VDC



#50

Toluene-d8

Concen: 20.692 ug/l

RT: 10.43 min Scan# 915

Delta R.T. -0.00 min

Lab File: VD062456.D

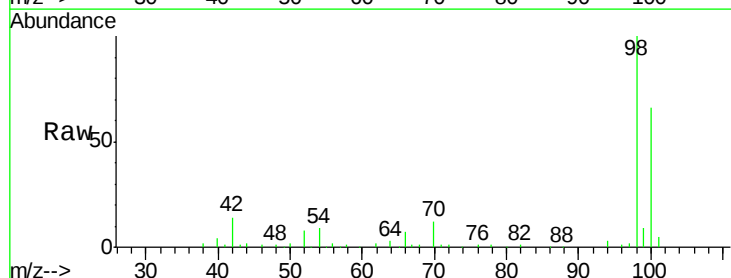
Acq: 20 May 2019 15:17

Tgt Ion: 98 Resp: 379833

Ion Ratio Lower Upper

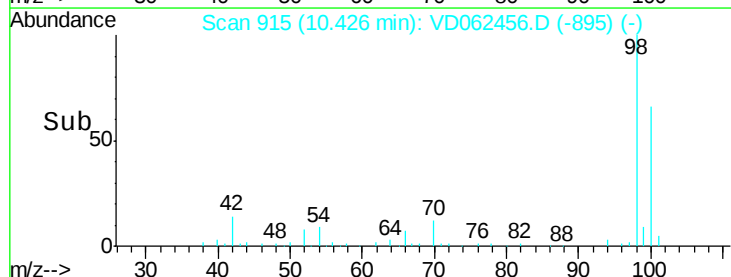
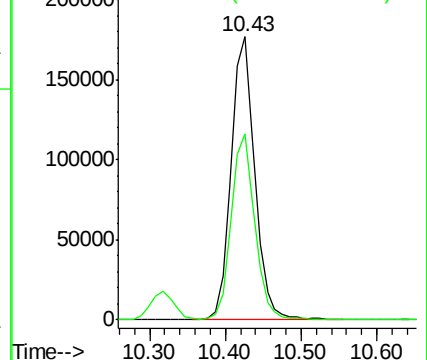
98 100

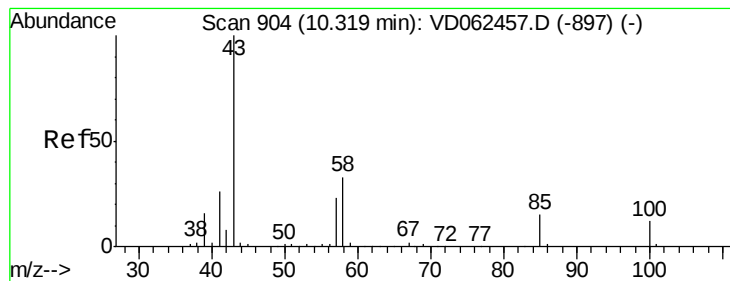
100 65.5 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC





#51

4-Methyl-2-Pentanone

Concen: 104.566 ug/l

RT: 10.32 min Scan# 904

Delta R.T. -0.00 min

Lab File: VD062456.D

Acq: 20 May 2019 15:17

Instrument :

MSVOA_D

ClientSampleId :

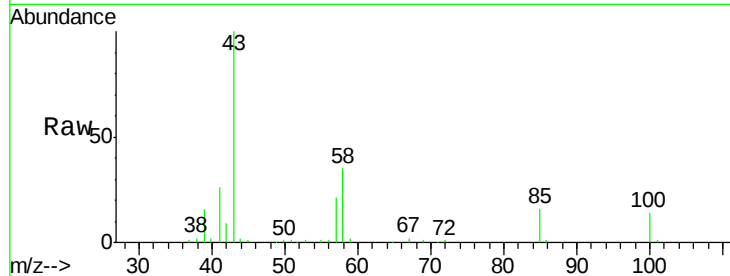
VSTDIC020

Tot Ion: 43 Resp: 304155

Ion Ratio Lower Upper

43 100

58 35.1 30.4 45.6



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

10.32

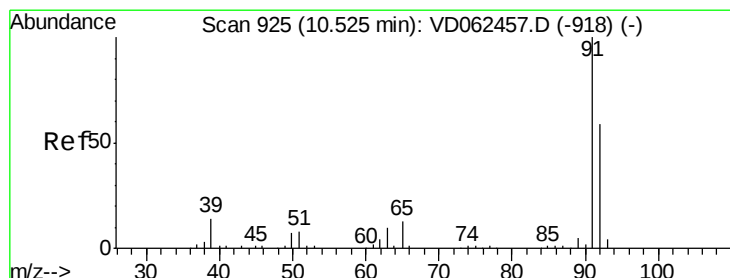
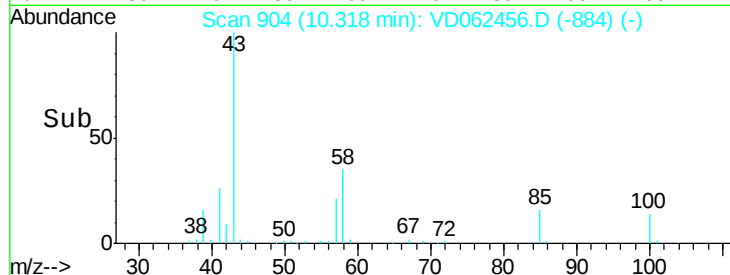
150000

100000

50000

0

Time-->



#52

Toluene

Concen: 23.012 ug/l

RT: 10.52 min Scan# 925

Delta R.T. -0.00 min

Lab File: VD062456.D

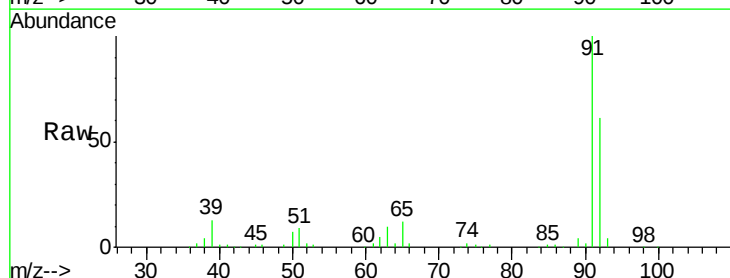
Acq: 20 May 2019 15:17

Tgt Ion: 92 Resp: 254372

Ion Ratio Lower Upper

92 100

91 163.8 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

10.52

200000

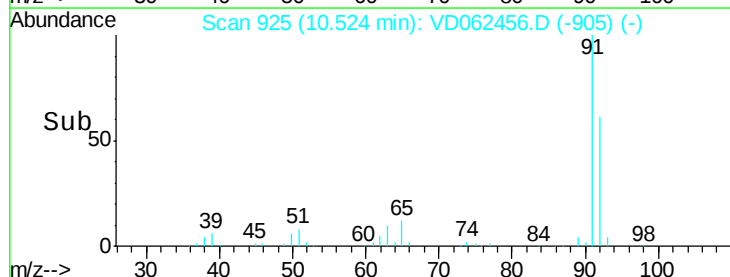
150000

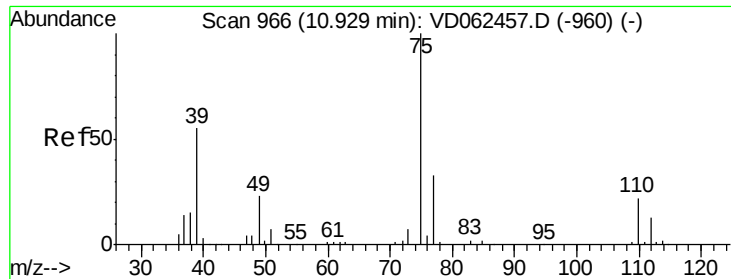
100000

50000

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 24.118 ug/l

RT: 10.93 min Scan# 966

Delta R.T. -0.00 min

Lab File: VD062456.D

Acq: 20 May 2019 15:17

Instrument :

MSVOA_D

ClientSampleId :

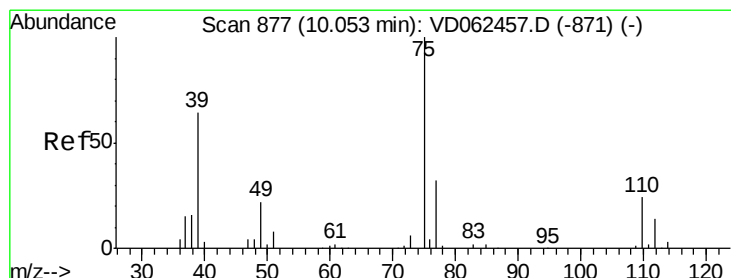
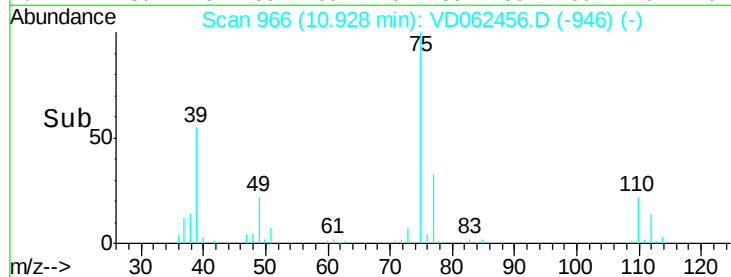
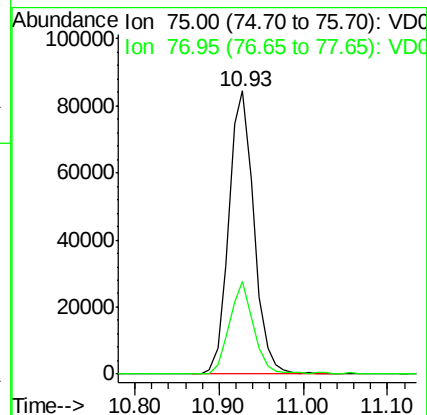
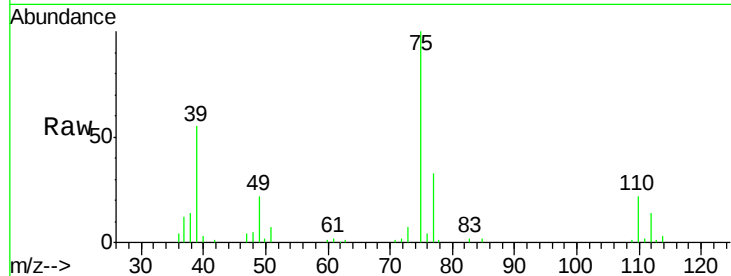
VSTDIC020

Tot Ion: 75 Resp: 174233

Ion Ratio Lower Upper

75 100

77 32.7 25.8 38.8



#54

cis-1,3-Dichloropropene

Concen: 20.907 ug/l

RT: 10.05 min Scan# 877

Delta R.T. -0.00 min

Lab File: VD062456.D

Acq: 20 May 2019 15:17

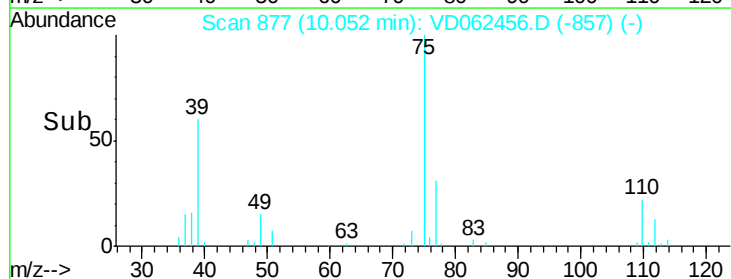
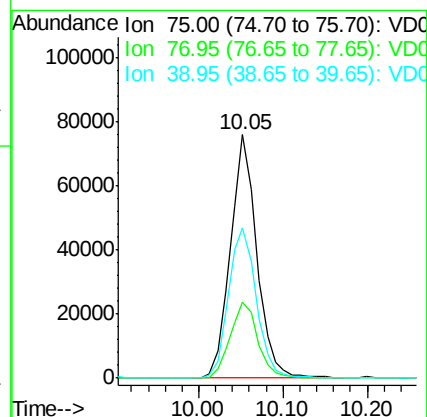
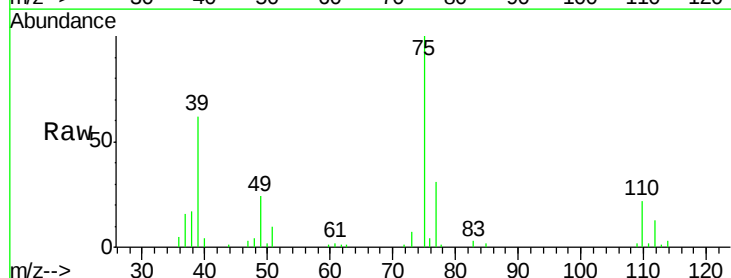
Tgt Ion: 75 Resp: 164772

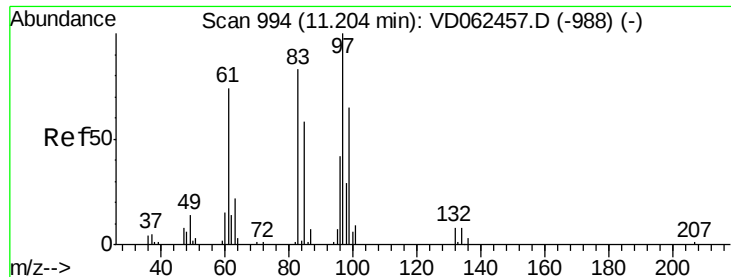
Ion Ratio Lower Upper

75 100

77 31.4 25.5 38.3

39 61.9 39.4 59.2#

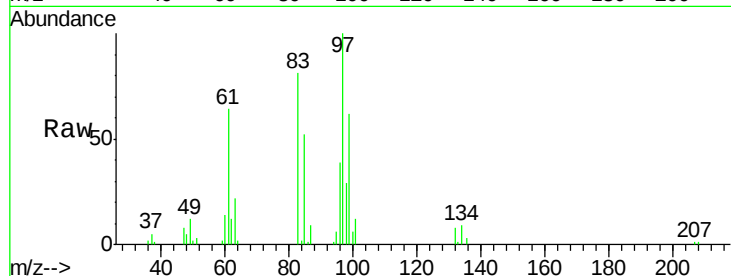




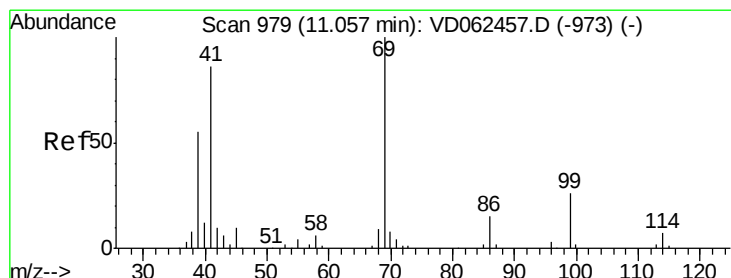
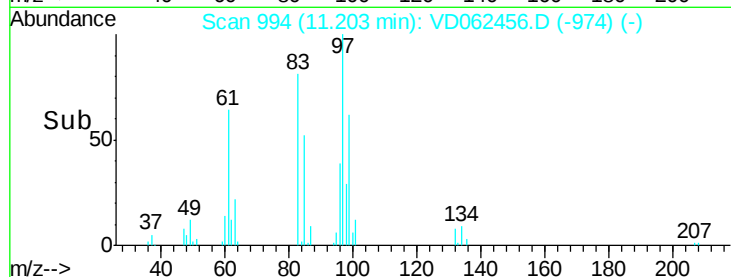
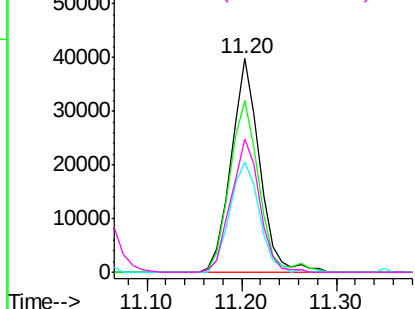
#55
 1,1,2-Trichloroethane
 Concen: 21.151 ug/l
 RT: 11.20 min Scan# 994
 Delta R.T. -0.00 min
 Lab File: VD062456.D
 Acq: 20 May 2019 15:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion:	97	Resp:	82723
Ion	Ratio	Lower	Upper
97	100		
83	80.5	65.7	98.5
85	51.8	45.6	68.4
99	62.1	48.4	72.6

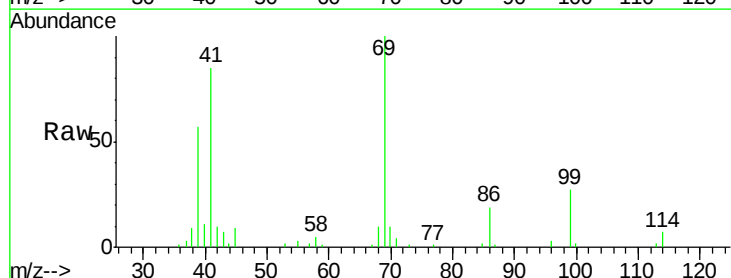


Abundance Ion 96.85 (96.55 to 97.55): VDC
 Ion 82.95 (82.65 to 83.65): VDC
 Ion 84.95 (84.65 to 85.65): VDC
 Ion 98.85 (98.55 to 99.55): VDC

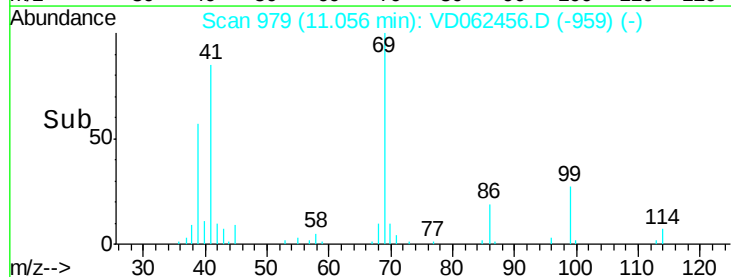
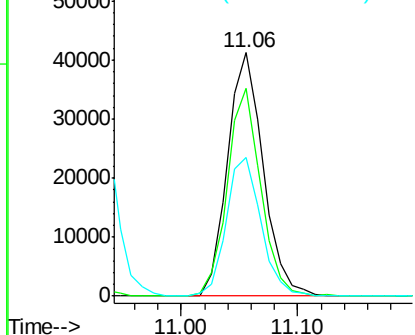


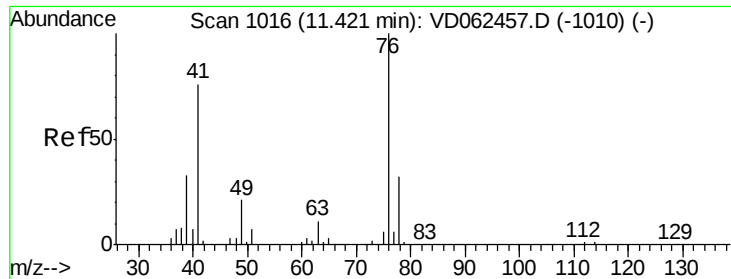
#56
 Ethyl methacrylate
 Concen: 21.438 ug/l
 RT: 11.06 min Scan# 979
 Delta R.T. -0.00 min
 Lab File: VD062456.D
 Acq: 20 May 2019 15:17

Tgt Ion:	69	Resp:	87129
Ion	Ratio	Lower	Upper
69	100		
41	85.4	56.3	84.5#
39	56.7	29.4	44.2#



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

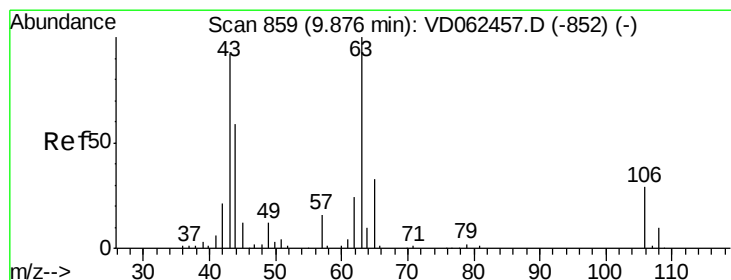
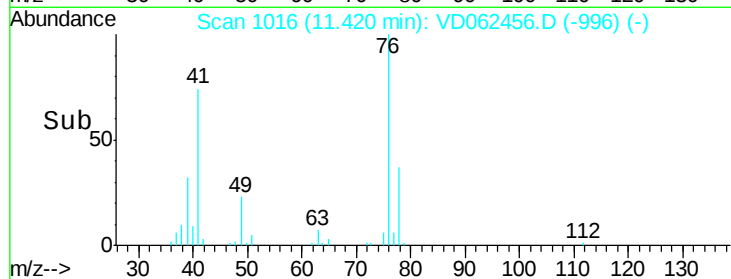
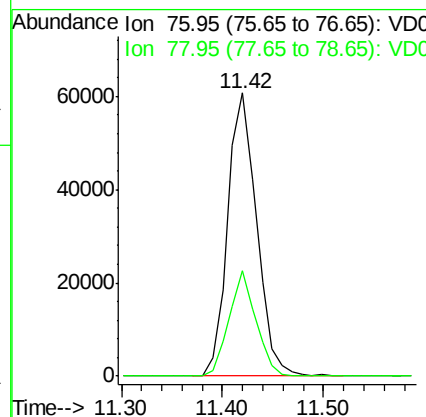
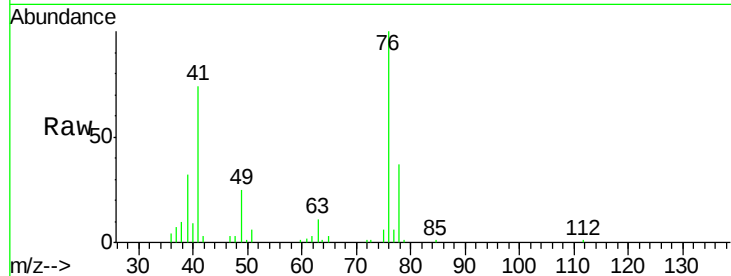




#57
 1,3-Dichloropropane
 Concen: 20.478 ug/l
 RT: 11.42 min Scan# 1016
 Delta R.T. -0.00 min
 Lab File: VD062456.D
 Acq: 20 May 2019 15:17

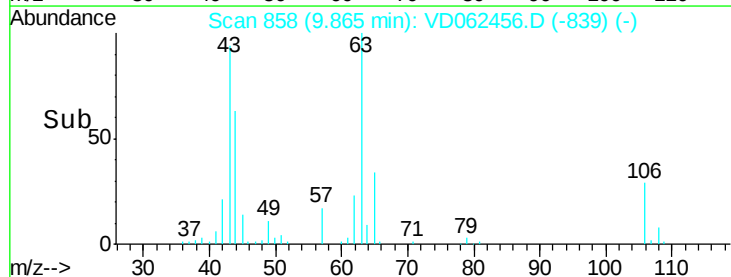
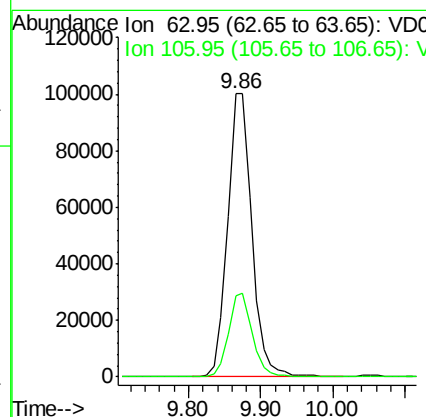
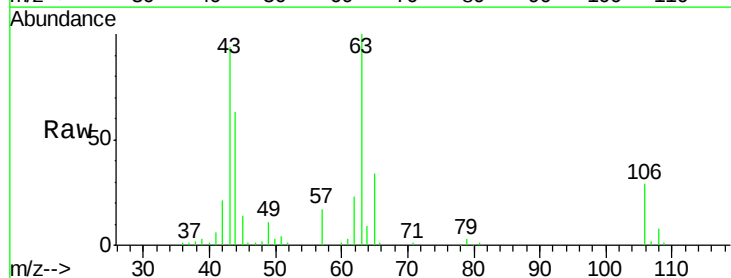
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

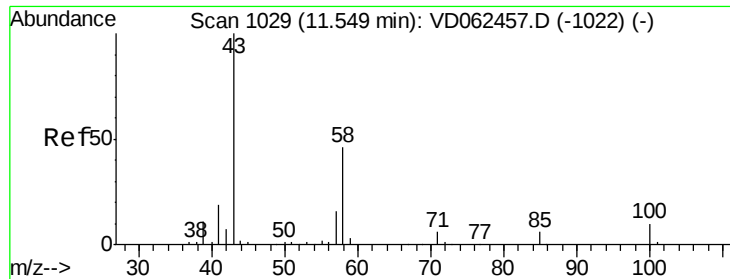
Tot Ion: 76 Resp: 121000
 Ion Ratio Lower Upper
 76 100
 78 37.4 26.2 39.2



#58
 2-Chloroethyl Vinyl ether
 Concen: 104.572 ug/l
 RT: 9.86 min Scan# 858
 Delta R.T. -0.01 min
 Lab File: VD062456.D
 Acq: 20 May 2019 15:17

Tgt Ion: 63 Resp: 232152
 Ion Ratio Lower Upper
 63 100
 106 28.8 22.6 34.0

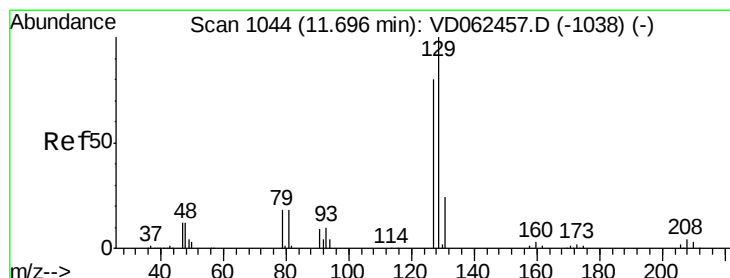
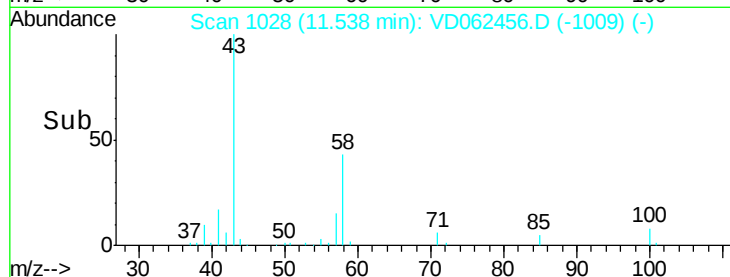
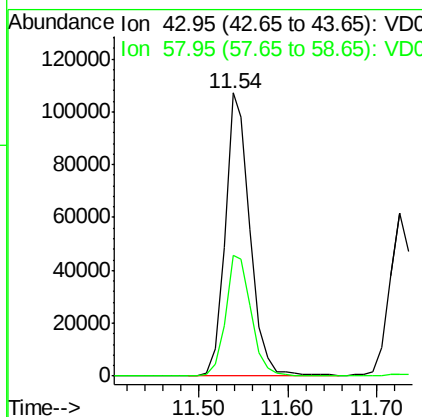
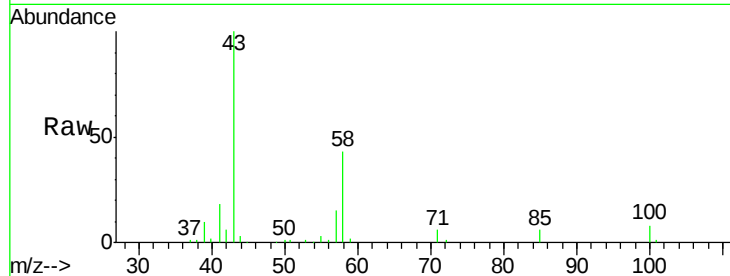




#59
2-Hexanone
Concen: 97.405 ug/l
RT: 11.54 min Scan# 1028
Delta R.T. -0.01 min
Lab File: VD062456.D
Acq: 20 May 2019 15:17

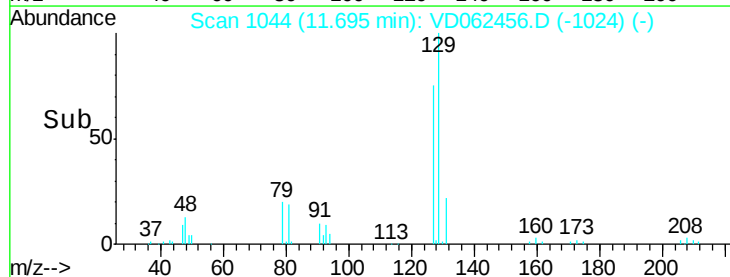
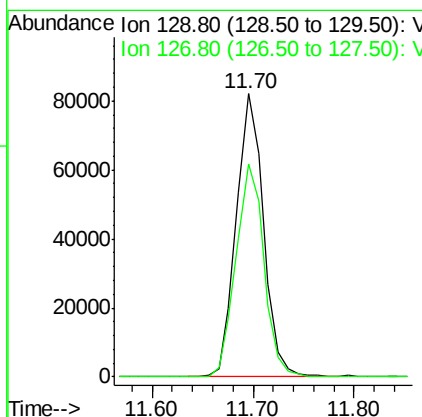
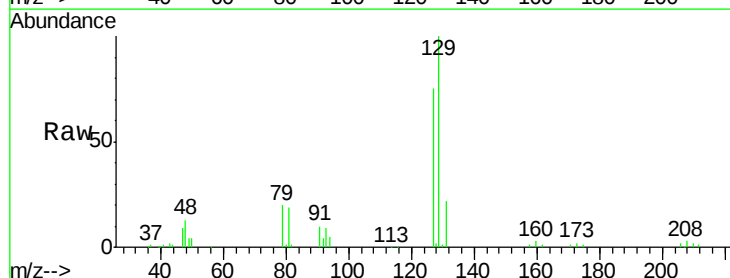
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

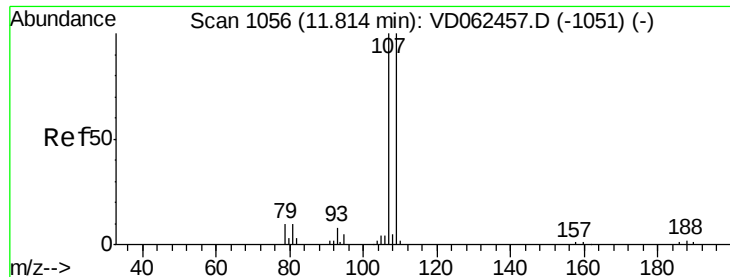
Tot Ion: 43 Resp: 208823
Ion Ratio Lower Upper
43 100
58 42.8 25.4 76.4



#60
Dibromochloromethane
Concen: 22.829 ug/l
RT: 11.70 min Scan# 1044
Delta R.T. -0.00 min
Lab File: VD062456.D
Acq: 20 May 2019 15:17

Tgt Ion: 129 Resp: 154308
Ion Ratio Lower Upper
129 100
127 75.3 38.0 113.9





#61

1,2-Dibromoethane

Concen: 20.190 ug/l

RT: 11.82 min Scan# 1057

Delta R.T. 0.01 min

Lab File: VD062456.D

Acq: 20 May 2019 15:17

Instrument :

MSVOA_D

ClientSampleId :

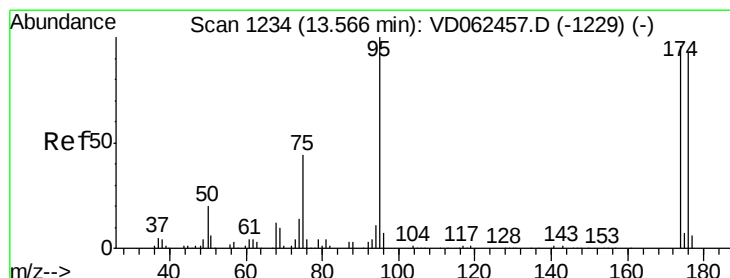
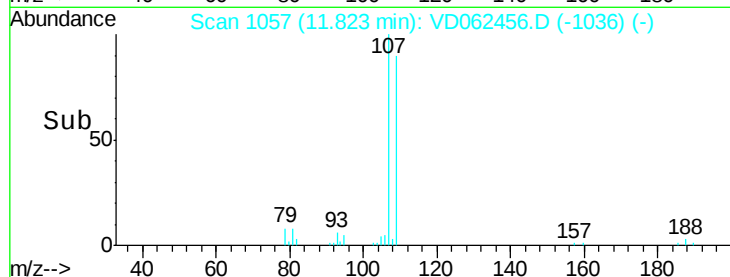
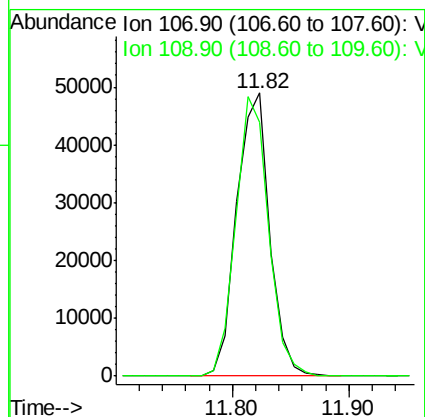
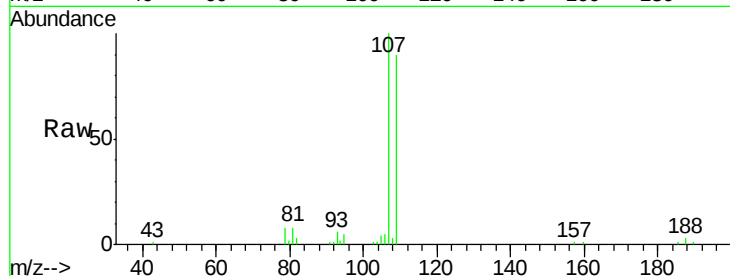
VSTDIC020

Tot Ion:107 Resp: 96004

Ion Ratio Lower Upper

107 100

109 89.8 78.3 117.5



#62

4-Bromofluorobenzene

Concen: 22.252 ug/l

RT: 13.57 min Scan# 1234

Delta R.T. -0.00 min

Lab File: VD062456.D

Acq: 20 May 2019 15:17

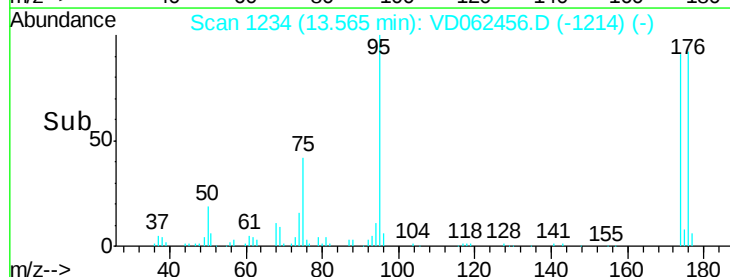
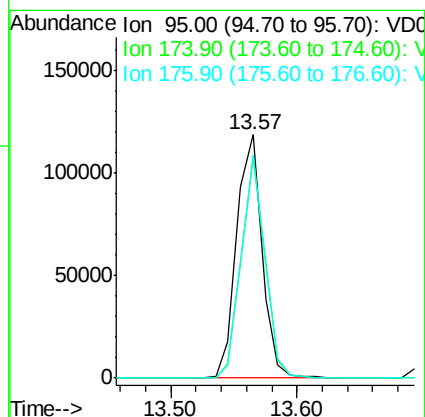
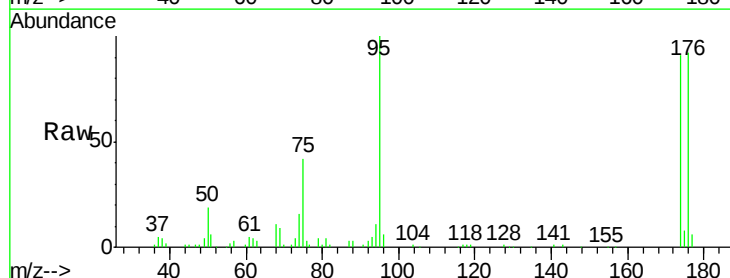
Tgt Ion: 95 Resp: 164031

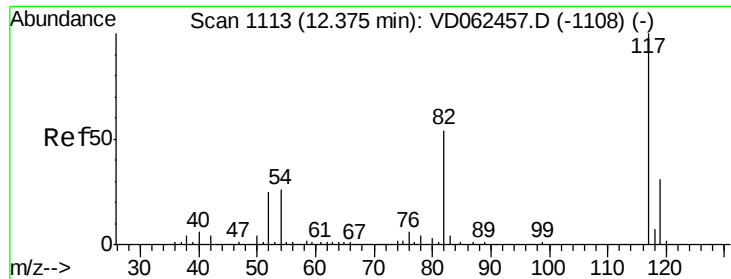
Ion Ratio Lower Upper

95 100

174 90.6 0.0 181.8

176 91.8 0.0 174.4

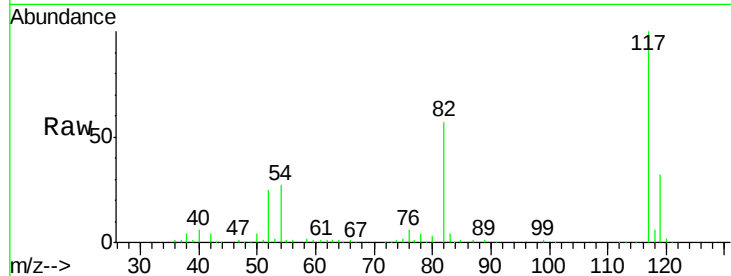




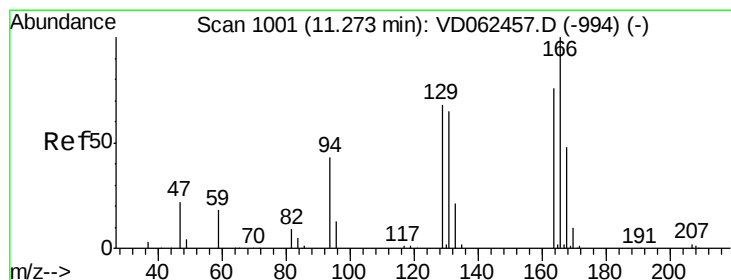
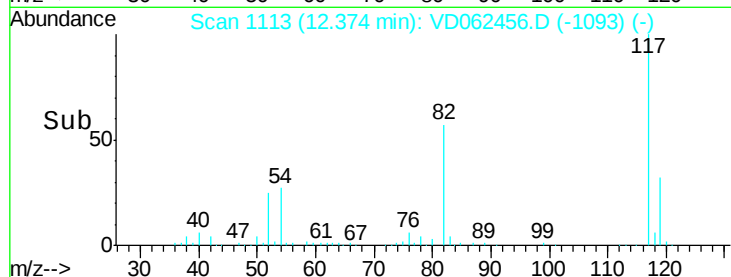
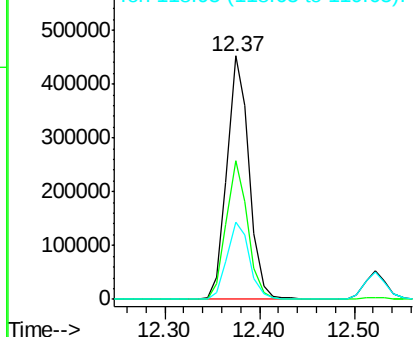
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1113
Delta R.T. -0.00 min
Lab File: VD062456.D
Acq: 20 May 2019 15:17

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion:117 Resp: 730455
Ion Ratio Lower Upper
117 100
82 56.7 36.2 54.2#
119 31.7 26.2 39.4

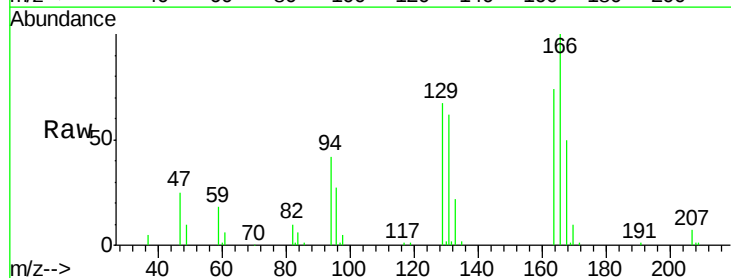


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

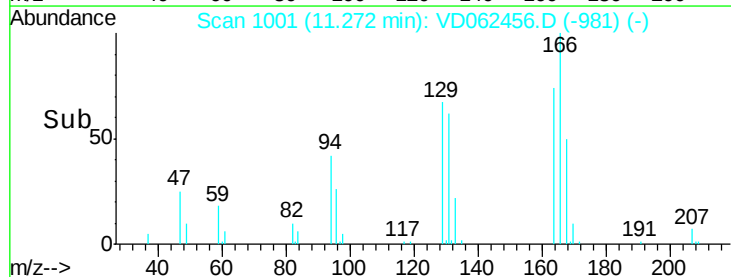
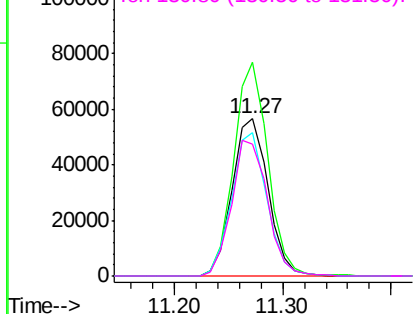


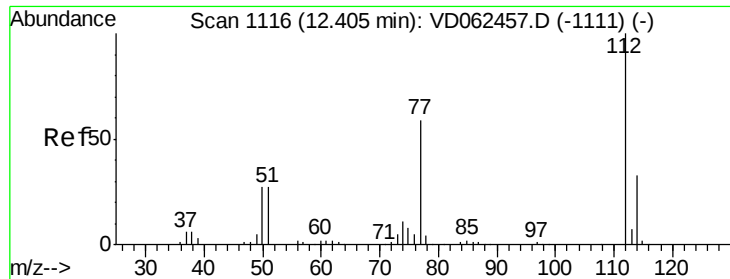
#64
Tetrachloroethene
Concen: 22.850 ug/l
RT: 11.27 min Scan# 1001
Delta R.T. -0.00 min
Lab File: VD062456.D
Acq: 20 May 2019 15:17

Tgt Ion:164 Resp: 130518
Ion Ratio Lower Upper
164 100
166 135.9 101.5 152.3
129 91.5 74.6 112.0
131 84.3 72.6 108.8



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

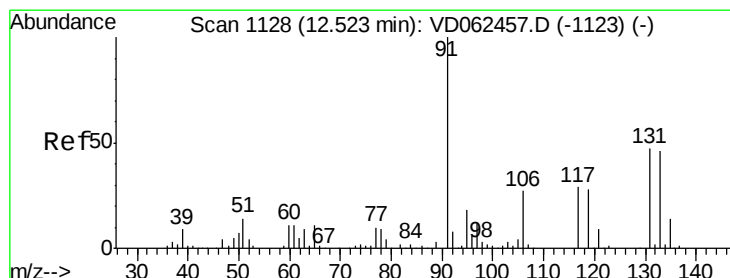
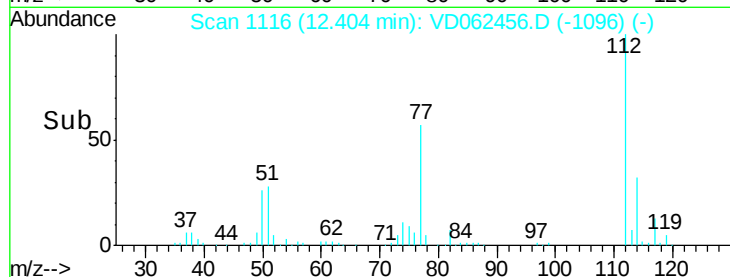
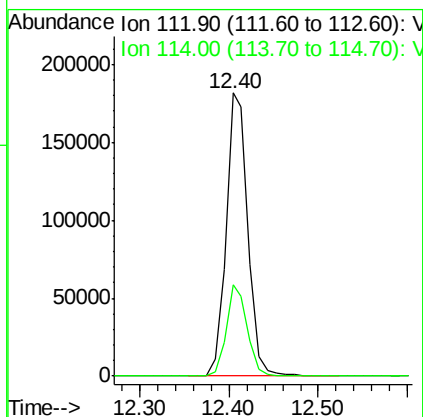
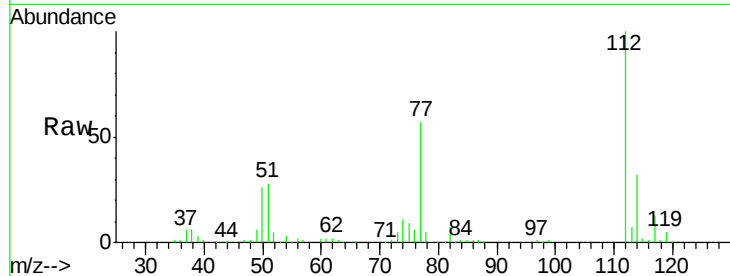




#65
Chlorobenzene
Concen: 22.871 ug/l
RT: 12.40 min Scan# 1116
Delta R.T. -0.00 min
Lab File: VD062456.D
Acq: 20 May 2019 15:17

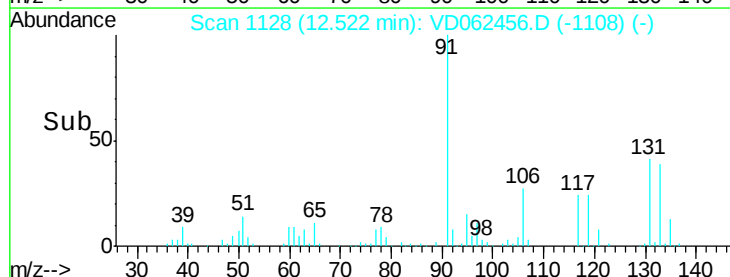
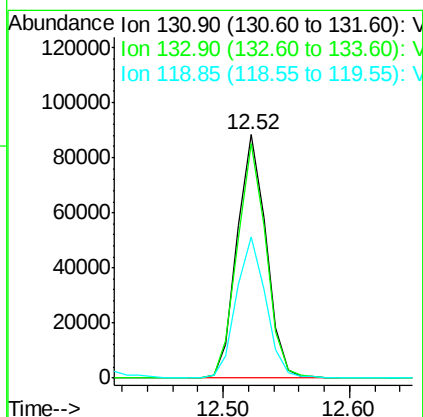
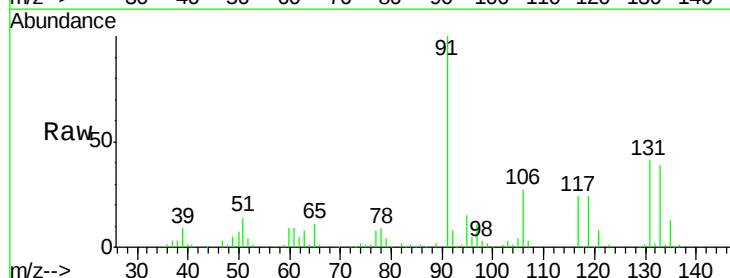
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

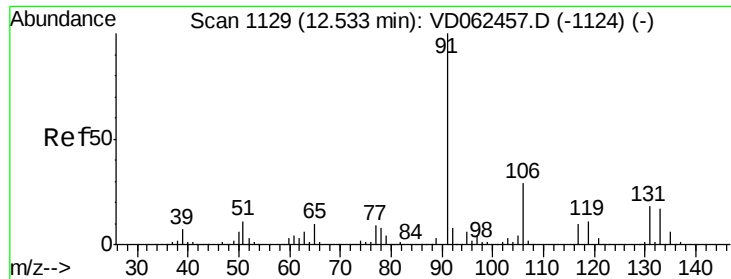
Tot Ion:112 Resp: 311163
Ion Ratio Lower Upper
112 100
114 32.4 25.8 38.8



#66
1,1,1,2-Tetrachloroethane
Concen: 23.752 ug/l
RT: 12.52 min Scan# 1128
Delta R.T. -0.00 min
Lab File: VD062456.D
Acq: 20 May 2019 15:17

Tgt Ion:131 Resp: 140639
Ion Ratio Lower Upper
131 100
133 96.5 48.6 145.8
119 57.9 34.7 104.1

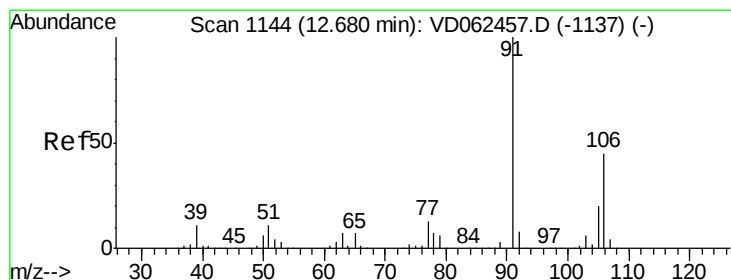
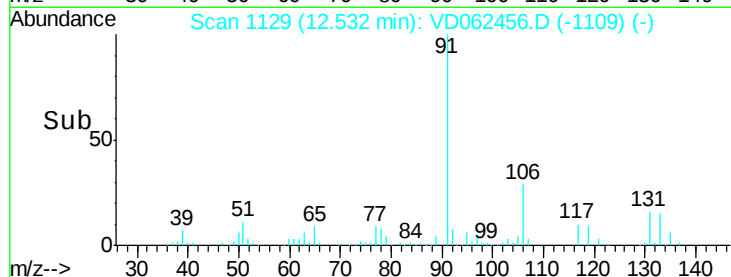
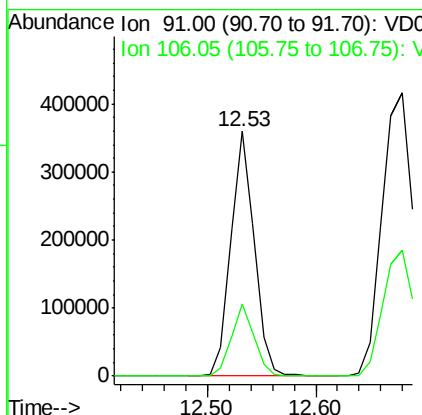
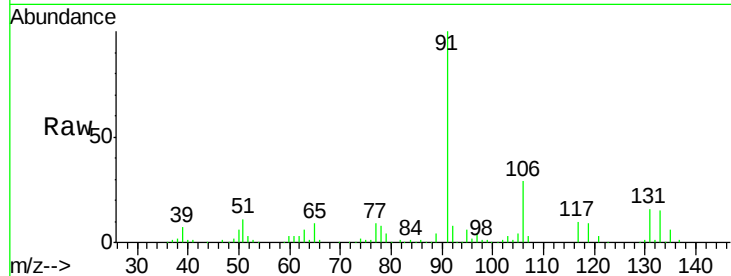




#67
Ethyl Benzene
Concen: 23.900 ug/l
RT: 12.53 min Scan# 1129
Delta R.T. -0.00 min
Lab File: VD062456.D
Acq: 20 May 2019 15:17

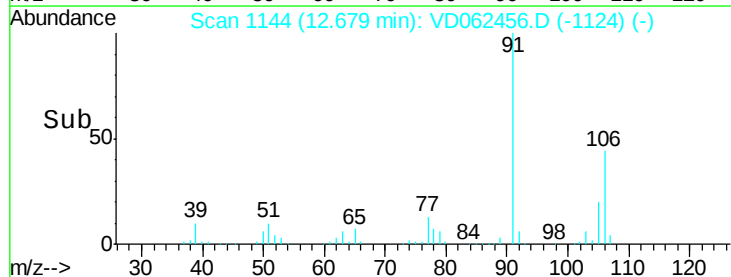
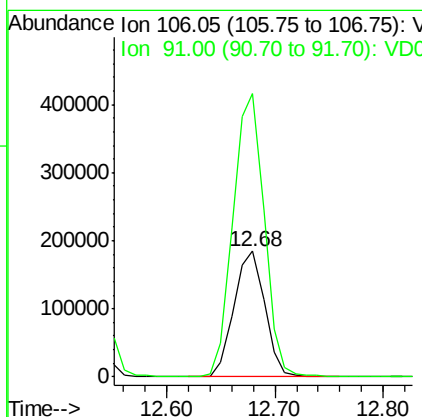
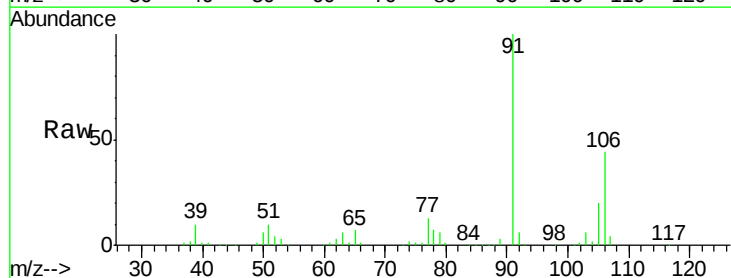
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

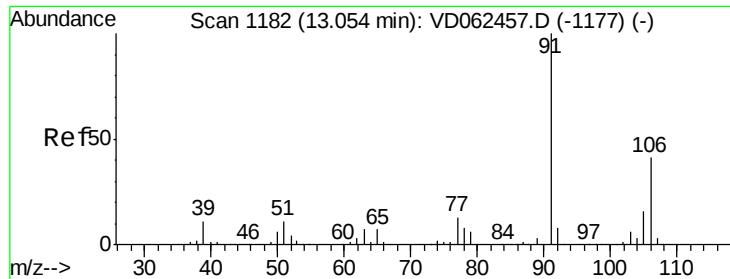
Tot Ion: 91 Resp: 544362
Ion Ratio Lower Upper
91 100
106 29.4 24.7 37.1



#68
m/p-Xylenes
Concen: 44.168 ug/l
RT: 12.68 min Scan# 1144
Delta R.T. -0.00 min
Lab File: VD062456.D
Acq: 20 May 2019 15:17

Tgt Ion: 106 Resp: 366011
Ion Ratio Lower Upper
106 100
91 225.5 164.0 246.0

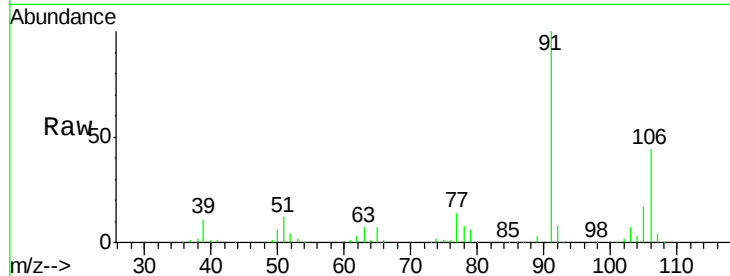




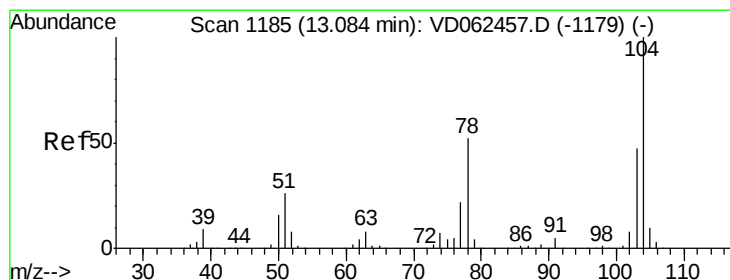
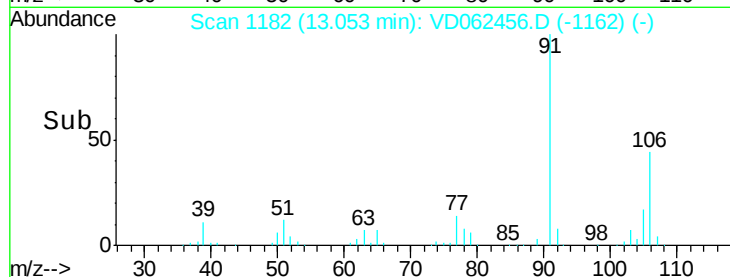
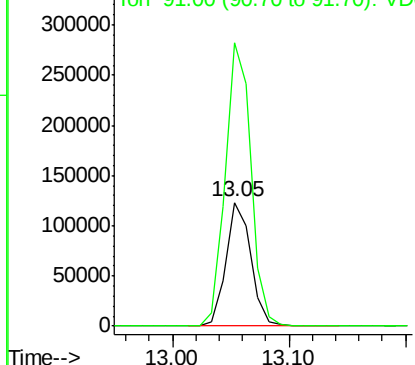
#69
o-Xylene
Concen: 23.640 ug/l
RT: 13.05 min Scan# 1182
Delta R.T. -0.00 min
Lab File: VD062456.D
Acq: 20 May 2019 15:17

Instrument :
MSVOA_D
ClientSampleID :
VSTDIC020

Tot Ion:106 Resp: 182123
Ion Ratio Lower Upper
106 100
91 228.9 106.7 319.9

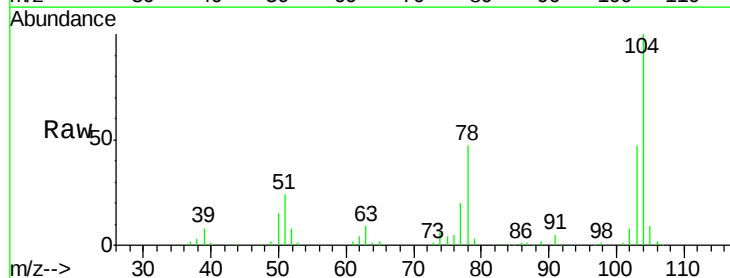


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

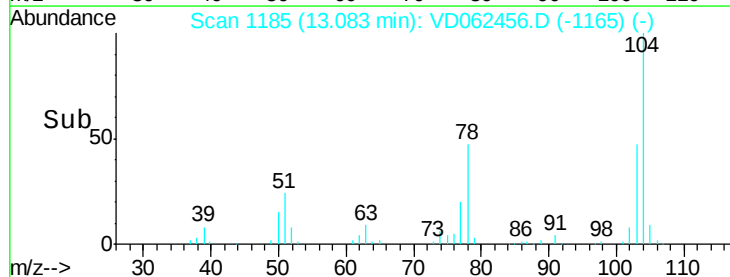
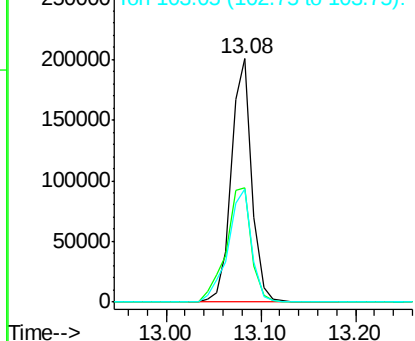


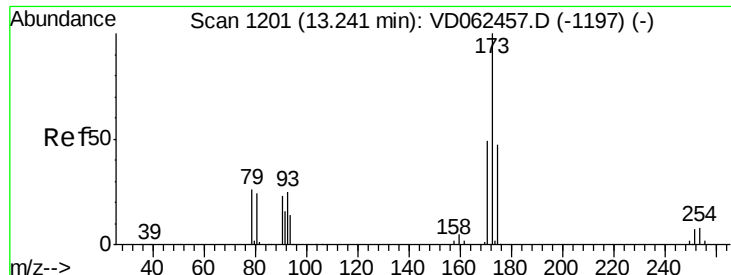
#70
Styrene
Concen: 22.901 ug/l
RT: 13.08 min Scan# 1185
Delta R.T. -0.00 min
Lab File: VD062456.D
Acq: 20 May 2019 15:17

Tgt Ion:104 Resp: 298877
Ion Ratio Lower Upper
104 100
78 47.1 35.4 53.2
103 46.6 37.5 56.3



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





#71

Bromoform

Concen: 22.142 ug/l

RT: 13.24 min Scan# 1201

Delta R.T. -0.00 min

Lab File: VD062456.D

Acq: 20 May 2019 15:17

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

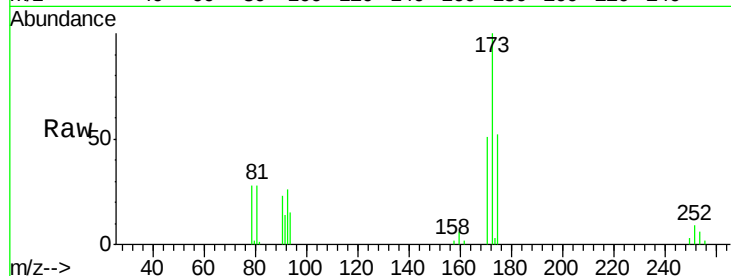
Tot Ion:173 Resp: 91213

Ion Ratio Lower Upper

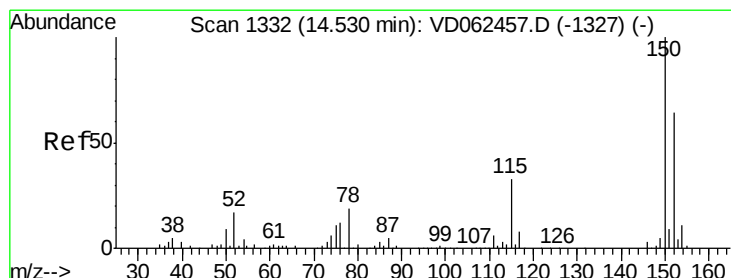
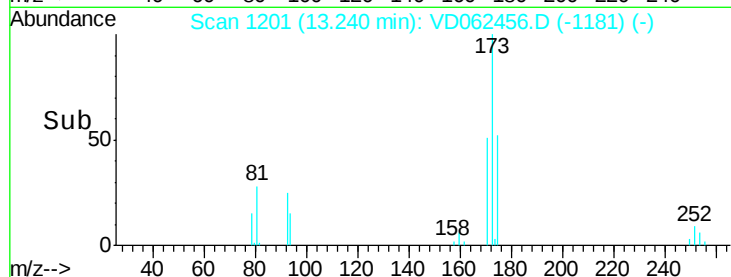
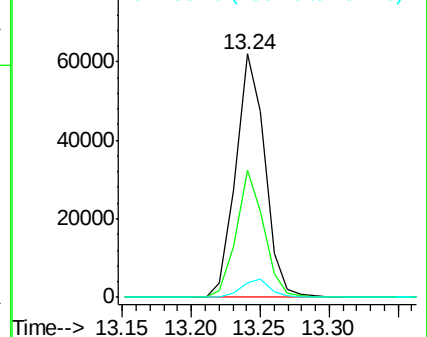
173 100

175 52.2 24.4 73.4

254 6.2 5.4 8.2



Abundance Ion 172.80 (172.50 to 173.50): V
Ion 174.80 (174.50 to 175.50): V
Ion 253.70 (253.40 to 254.40): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.53 min Scan# 1332

Delta R.T. -0.00 min

Lab File: VD062456.D

Acq: 20 May 2019 15:17

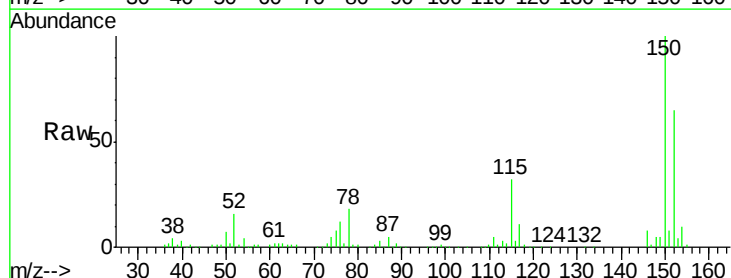
Tgt Ion:152 Resp: 419970

Ion Ratio Lower Upper

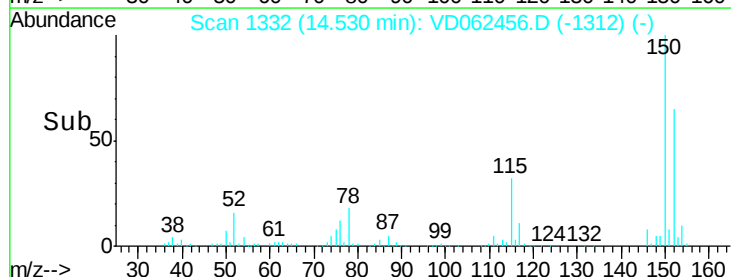
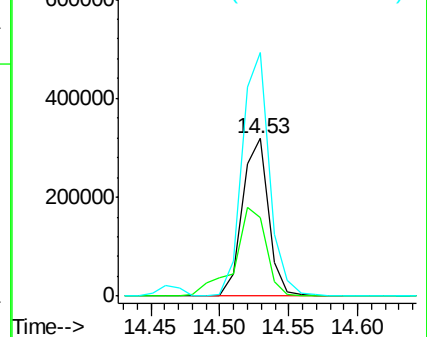
152 100

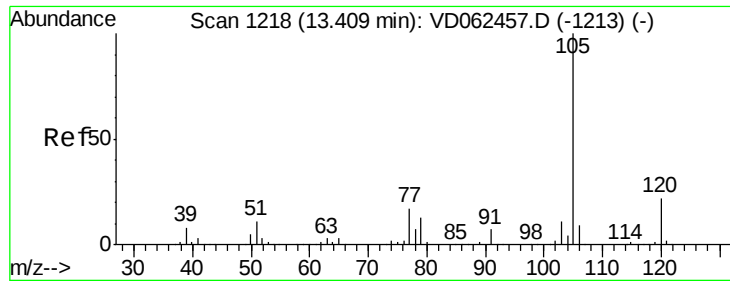
115 50.0 30.9 92.7

150 154.5 0.0 314.8



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





#73

Isopropylbenzene

Concen: 22.131 ug/l

RT: 13.41 min Scan# 1218

Delta R.T. -0.00 min

Lab File: VD062456.D

Acq: 20 May 2019 15:17

Instrument :

MSVOA_D

ClientSampleId :

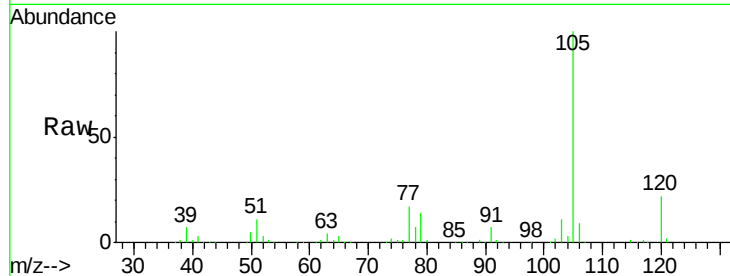
VSTDIC020

Tot Ion:105 Resp: 557132

Ion Ratio Lower Upper

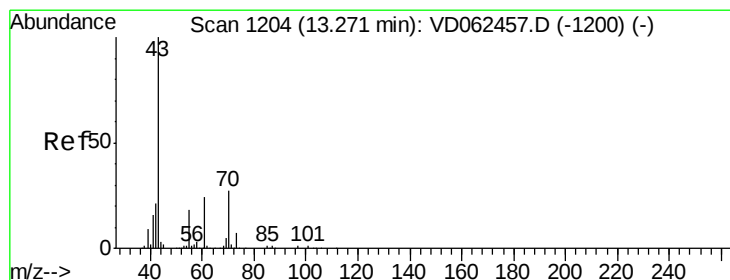
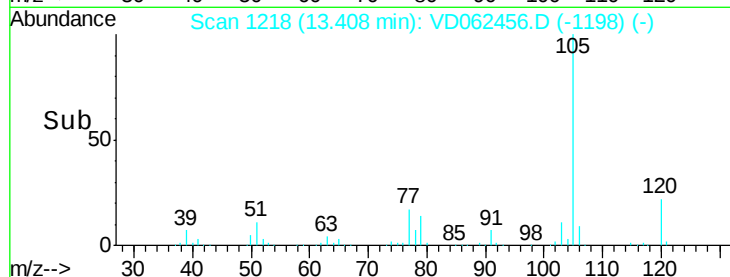
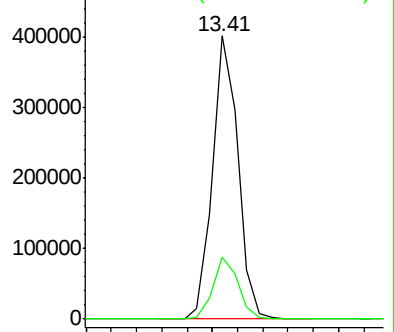
105 100

120 21.8 12.0 36.1



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 19.350 ug/l

RT: 13.27 min Scan# 1204

Delta R.T. -0.00 min

Lab File: VD062456.D

Acq: 20 May 2019 15:17

Tgt Ion: 43 Resp: 127711

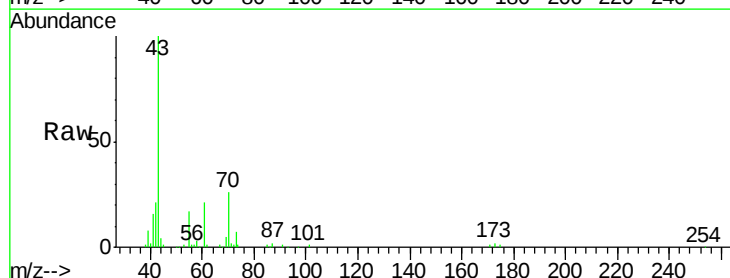
Ion Ratio Lower Upper

43 100

70 25.6 24.2 36.4

55 17.3 16.0 24.0

61 21.3 21.6 32.4#

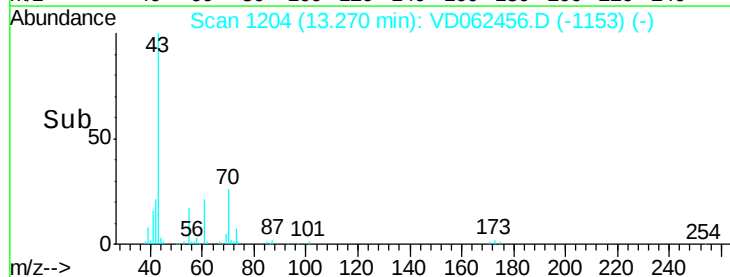
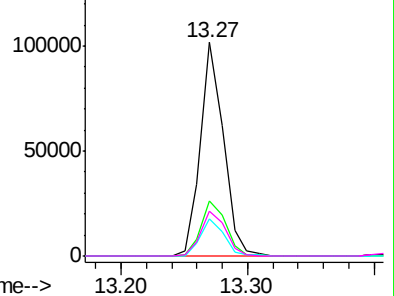


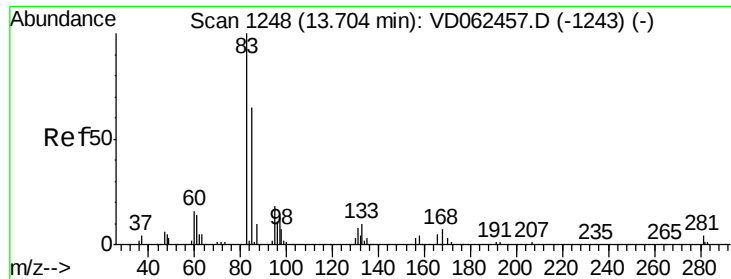
Abundance Ion 42.95 (42.65 to 43.65): VDC

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





#75

1,1,2,2-Tetrachloroethane

Concen: 19.462 ug/l

RT: 13.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VD062456.D

Acq: 20 May 2019 15:17

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

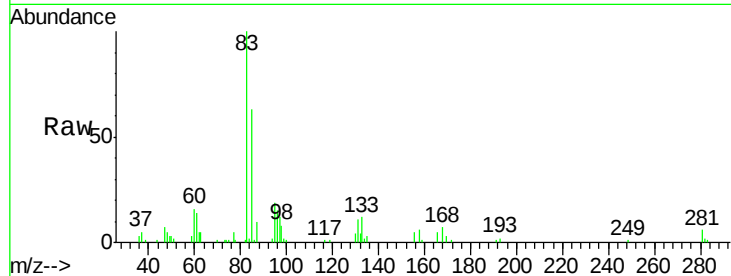
Tot Ion: 83 Resp: 92752

Ion Ratio Lower Upper

83 100

131 10.9 5.0 14.9

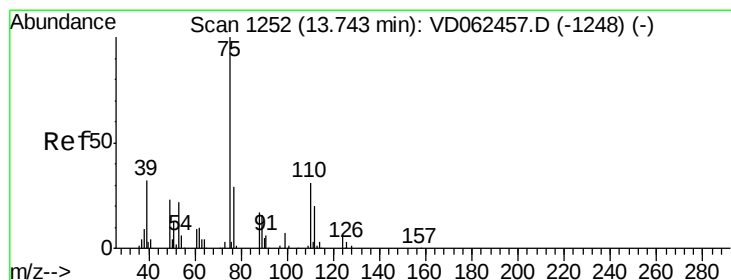
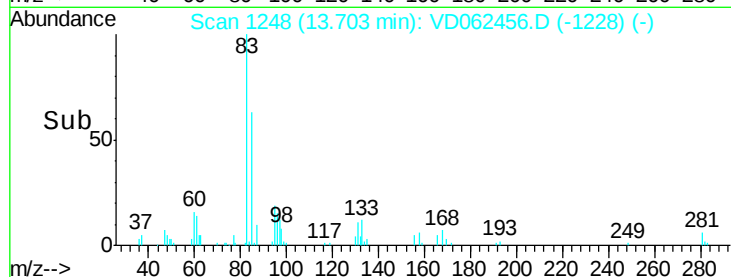
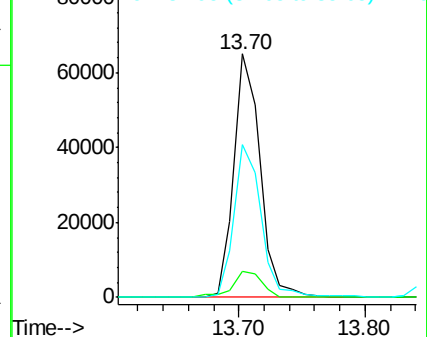
85 62.9 32.6 97.7



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 19.742 ug/l

RT: 13.74 min Scan# 1252

Delta R.T. -0.00 min

Lab File: VD062456.D

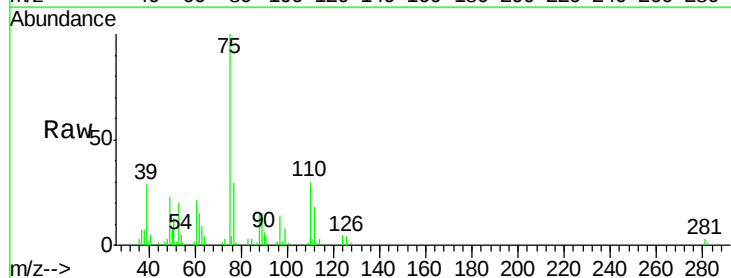
Acq: 20 May 2019 15:17

Tgt Ion: 75 Resp: 98533

Ion Ratio Lower Upper

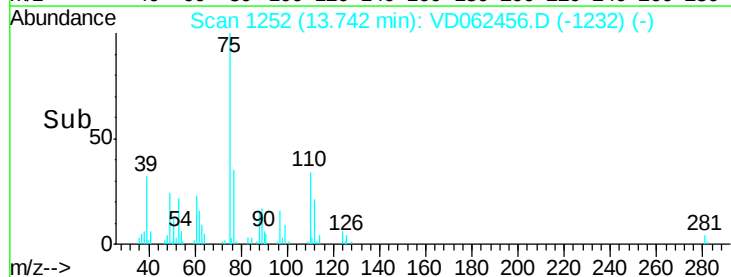
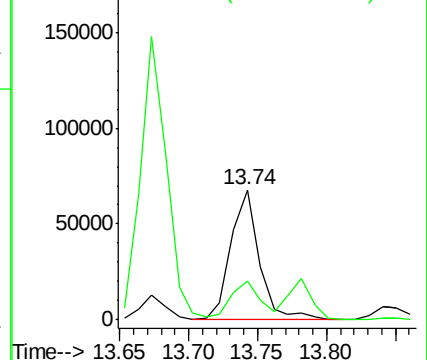
75 100

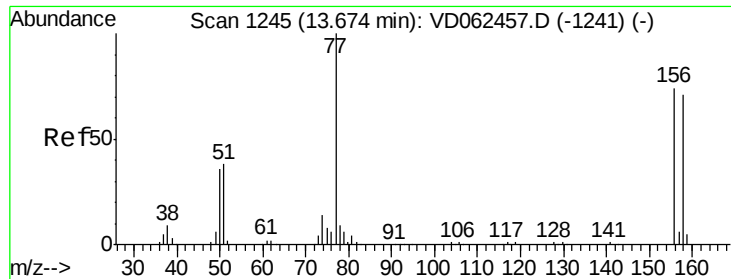
77 30.4 16.4 49.4



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 22.516 ug/l

RT: 13.67 min Scan# 1245

Delta R.T. -0.00 min

Lab File: VD062456.D

Acq: 20 May 2019 15:17

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

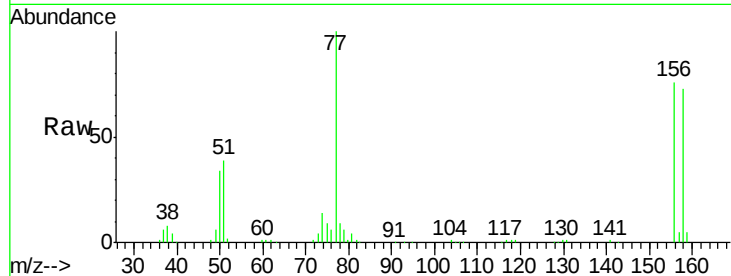
Tot Ion:156 Resp: 158672

Ion Ratio Lower Upper

156 100

77 131.7 53.1 159.4

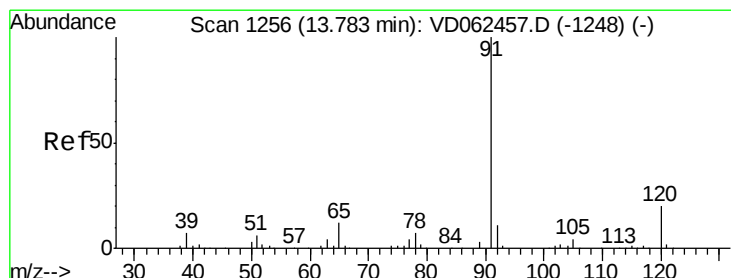
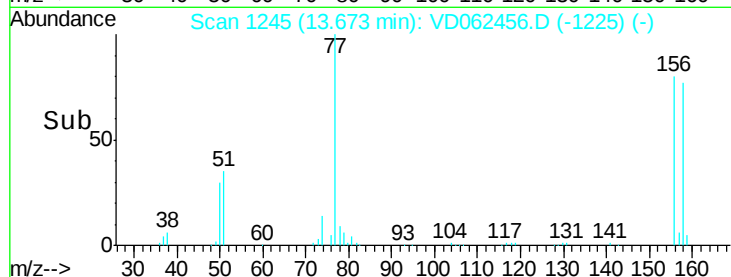
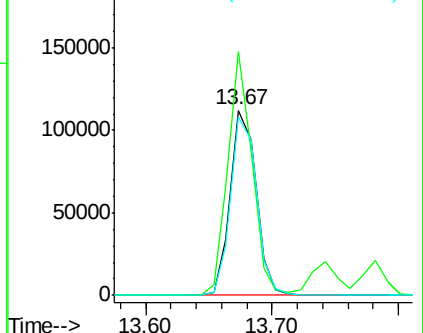
158 96.5 49.4 148.0



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 21.427 ug/l

RT: 13.78 min Scan# 1256

Delta R.T. -0.00 min

Lab File: VD062456.D

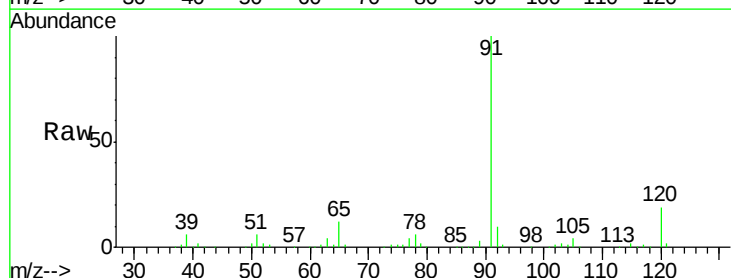
Acq: 20 May 2019 15:17

Tgt Ion: 91 Resp: 643463

Ion Ratio Lower Upper

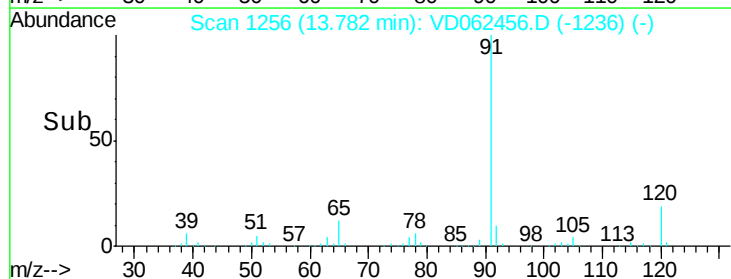
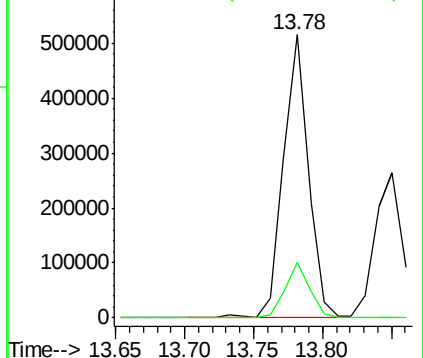
91 100

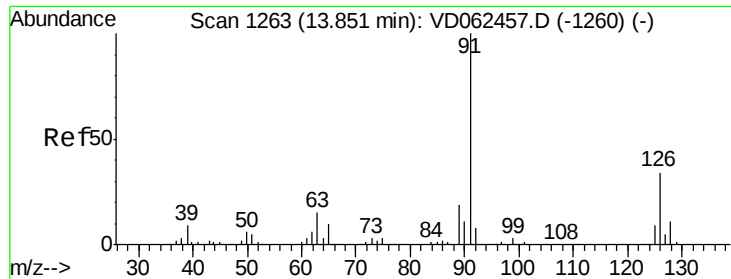
120 19.5 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V

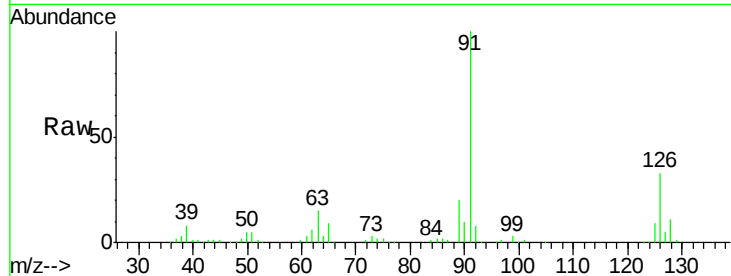




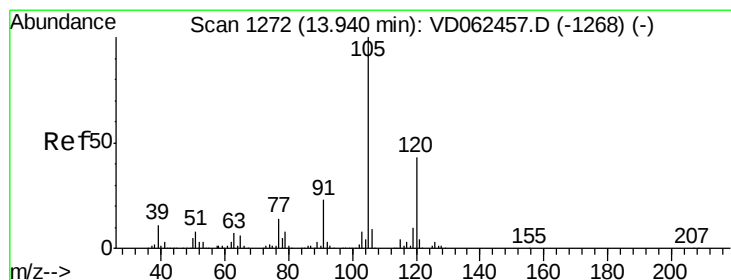
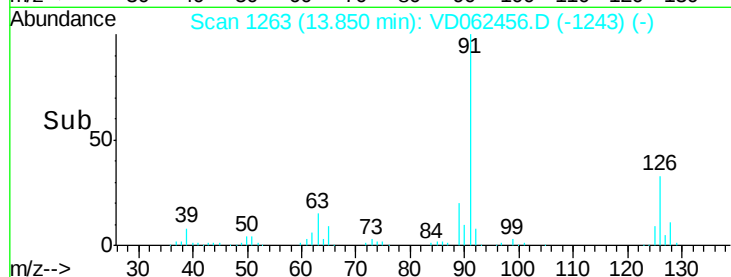
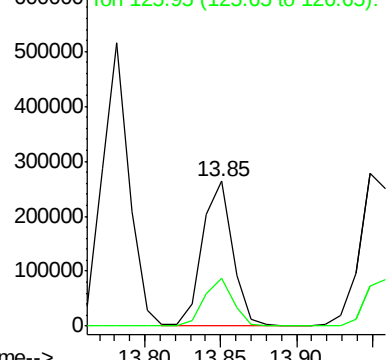
#79
 2-Chlorotoluene
 Concen: 21.256 ug/l
 RT: 13.85 min Scan# 1263
 Delta R.T. -0.00 min
 Lab File: VD062456.D
 Acq: 20 May 2019 15:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion: 91 Resp: 365577
 Ion Ratio Lower Upper
 91 100
 126 33.0 18.6 55.8

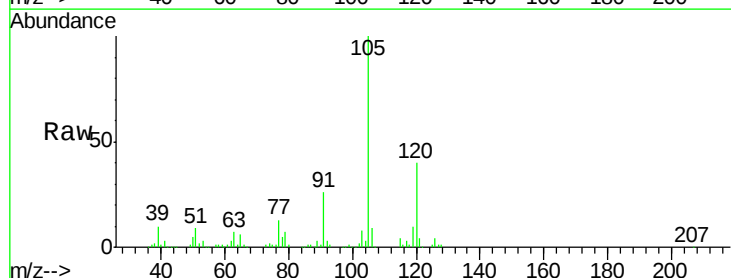


Abundance Ion 91.00 (90.70 to 91.70): VD062457.D (-1260) (-)
 Ion 125.95 (125.65 to 126.65): VD062457.D (-1260) (-)

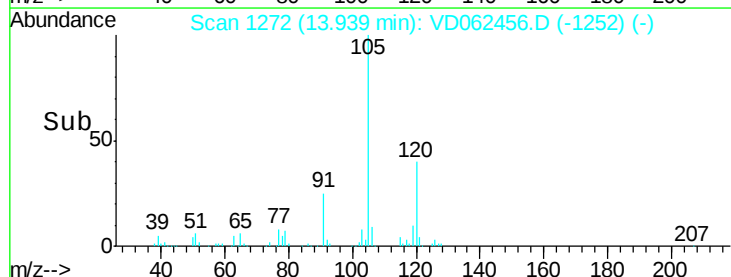
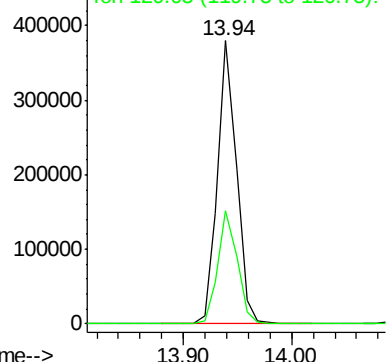


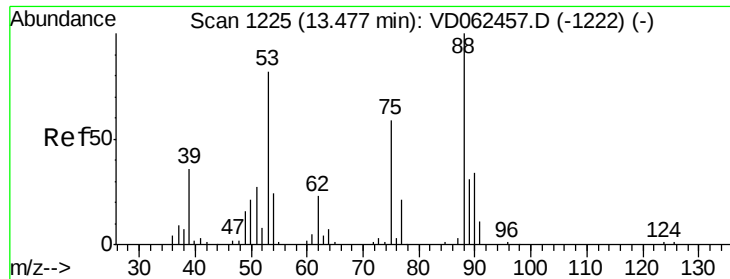
#80
 1,3,5-Trimethylbenzene
 Concen: 21.898 ug/l
 RT: 13.94 min Scan# 1272
 Delta R.T. -0.00 min
 Lab File: VD062456.D
 Acq: 20 May 2019 15:17

Tgt Ion: 105 Resp: 464220
 Ion Ratio Lower Upper
 105 100
 120 40.1 24.0 72.0



Abundance Ion 105.05 (104.75 to 105.75): VD062457.D (-1268) (-)
 Ion 120.05 (119.75 to 120.75): VD062457.D (-1268) (-)

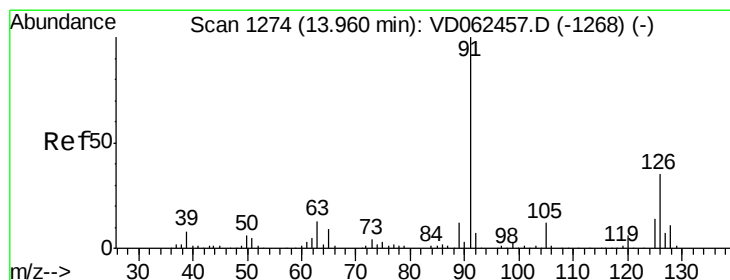
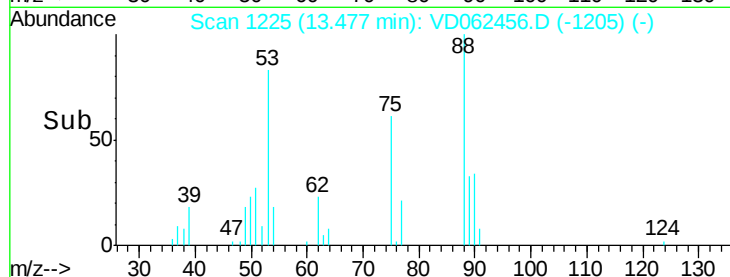
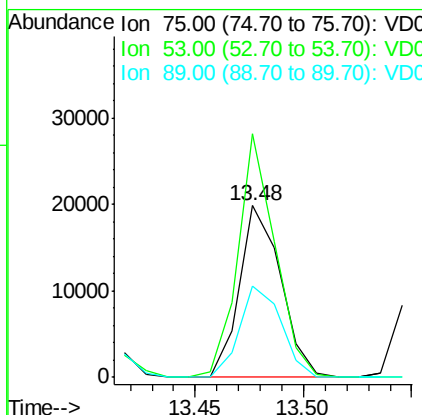
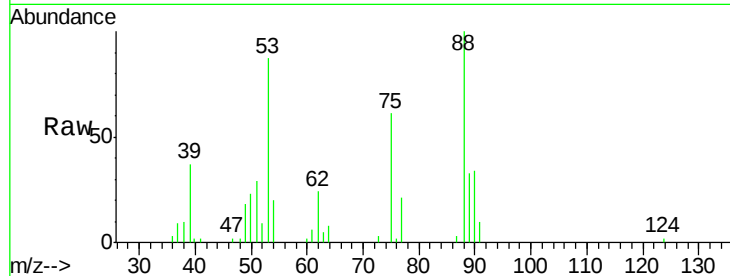




#81
trans-1,4-Dichloro-2-butene
Concen: 18.664 ug/l
RT: 13.48 min Scan# 1225
Delta R.T. -0.00 min
Lab File: VD062456.D
Acq: 20 May 2019 15:17

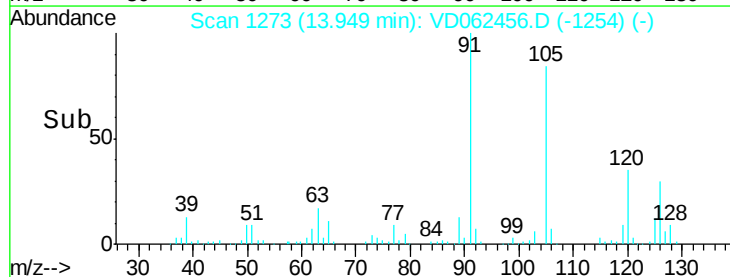
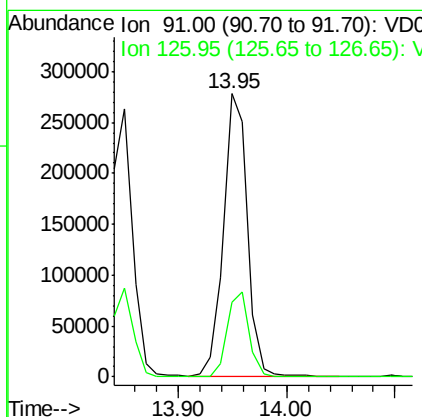
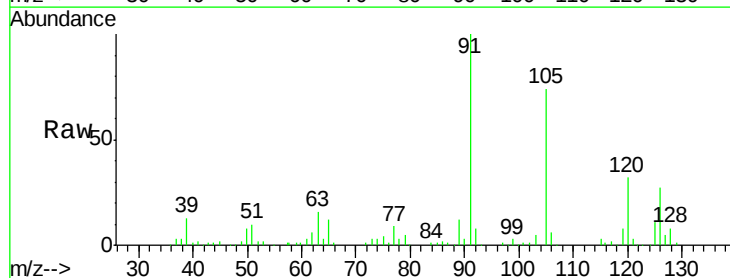
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

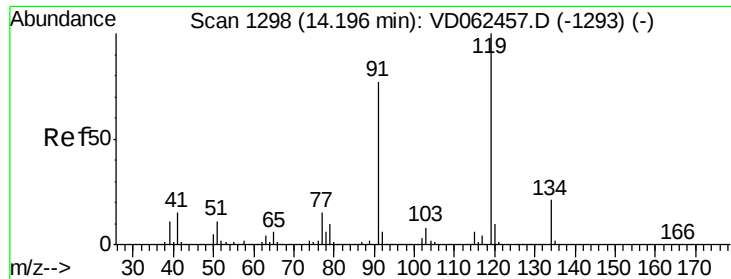
Tot Ion: 75 Resp: 26297
Ion Ratio Lower Upper
75 100
53 141.7 65.8 98.8#
89 53.4 35.0 52.6#



#82
4-Chlorotoluene
Concen: 21.007 ug/l
RT: 13.95 min Scan# 1273
Delta R.T. -0.01 min
Lab File: VD062456.D
Acq: 20 May 2019 15:17

Tgt Ion: 91 Resp: 425147
Ion Ratio Lower Upper
91 100
126 26.5 19.1 57.5

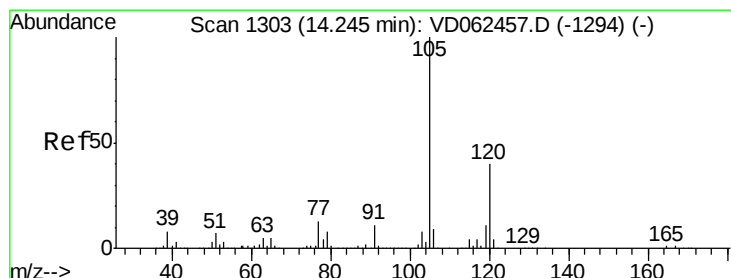
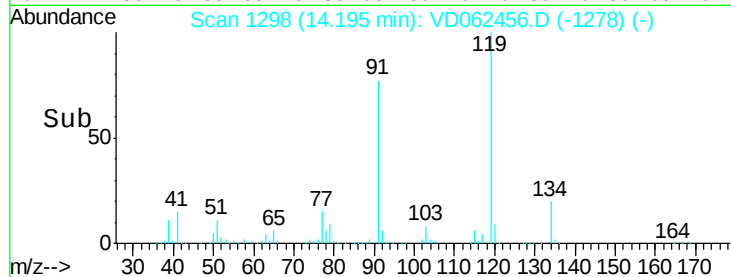
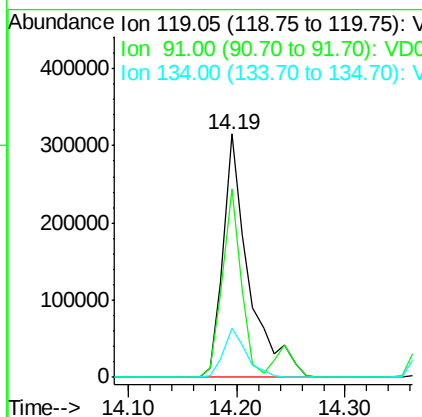
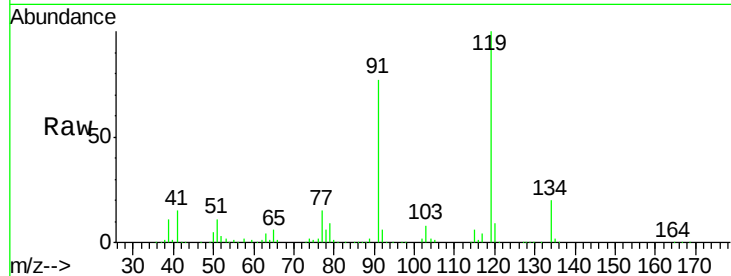




#83
 tert-Butylbenzene
 Concen: 21.828 ug/l
 RT: 14.19 min Scan# 1298
 Delta R.T. -0.00 min
 Lab File: VD062456.D
 Acq: 20 May 2019 15:17

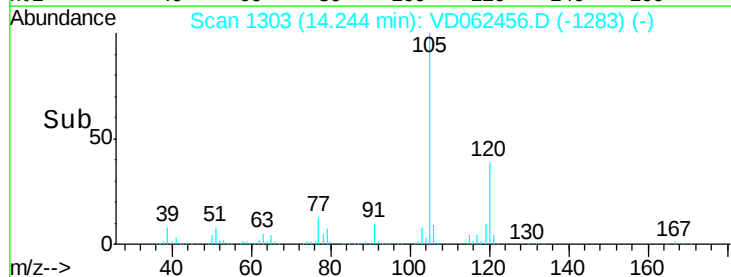
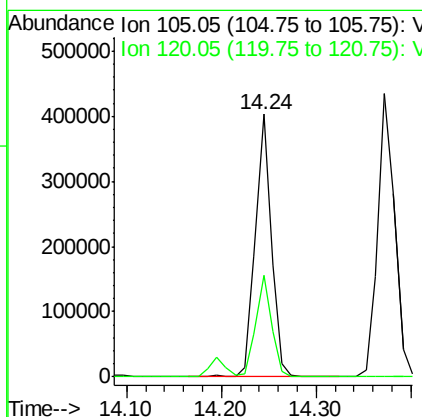
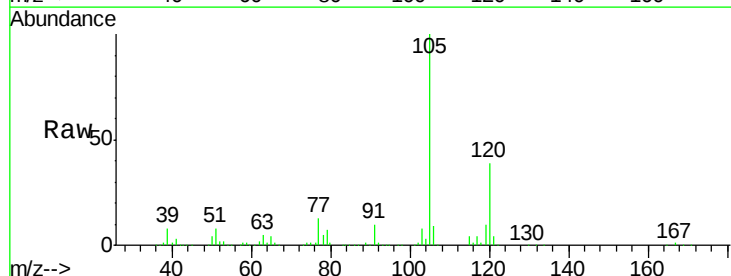
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

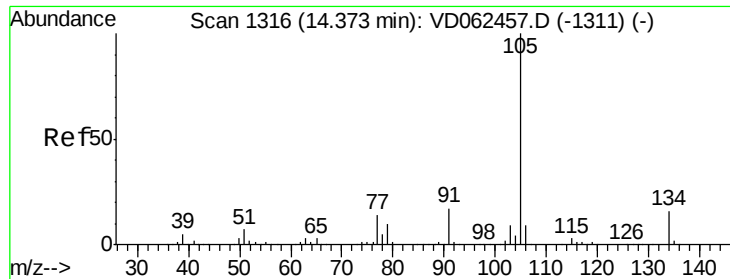
Tot Ion:119 Resp: 520105
 Ion Ratio Lower Upper
 119 100
 91 77.3 34.2 102.6
 134 20.2 12.0 36.0



#84
 1,2,4-Trimethylbenzene
 Concen: 22.445 ug/l
 RT: 14.24 min Scan# 1303
 Delta R.T. -0.00 min
 Lab File: VD062456.D
 Acq: 20 May 2019 15:17

Tgt Ion:105 Resp: 477480
 Ion Ratio Lower Upper
 105 100
 120 38.6 23.1 69.2

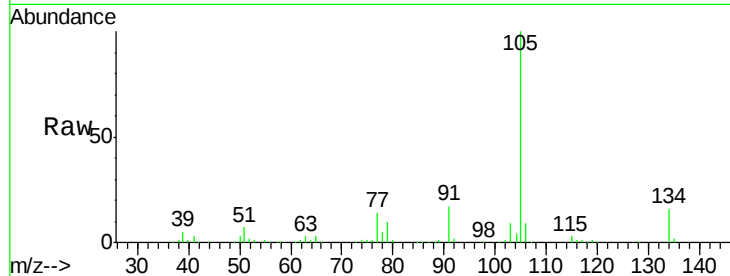




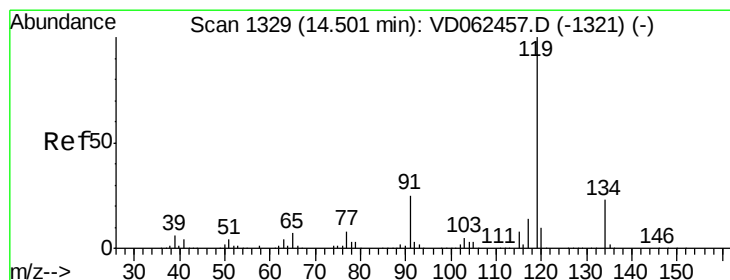
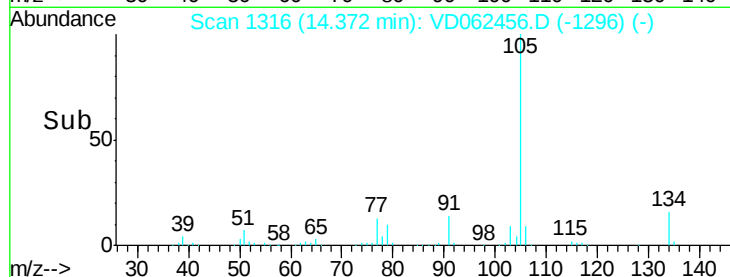
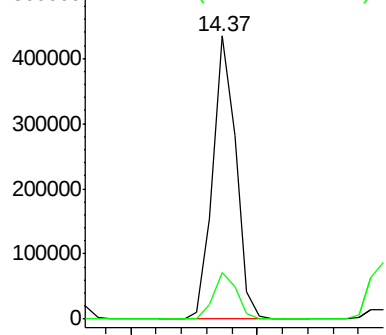
#85
 sec-Butylbenzene
 Concen: 21.058 ug/l
 RT: 14.37 min Scan# 1316
 Delta R.T. -0.00 min
 Lab File: VD062456.D
 Acq: 20 May 2019 15:17

Instrument :
 MSVOA_D
 ClientSampleID :
 VSTDIC020

Tot Ion:105 Resp: 550121
 Ion Ratio Lower Upper
 105 100
 134 16.3 8.9 26.7

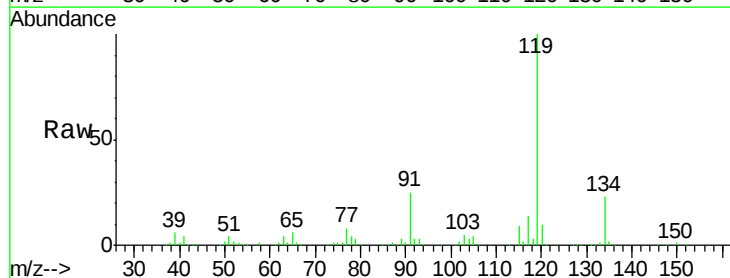


Abundance Ion 105.05 (104.75 to 105.75): V
 Ion 134.10 (133.80 to 134.80): V

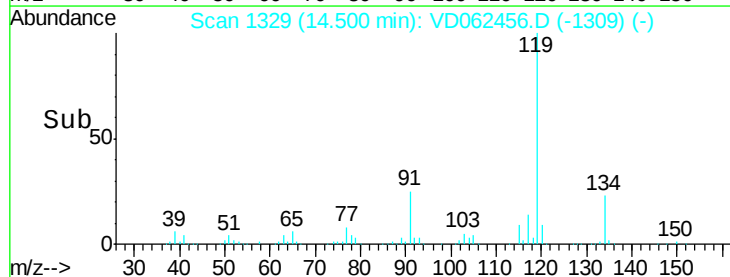
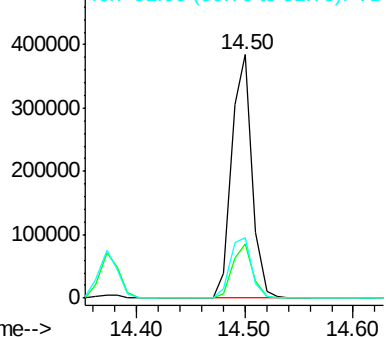


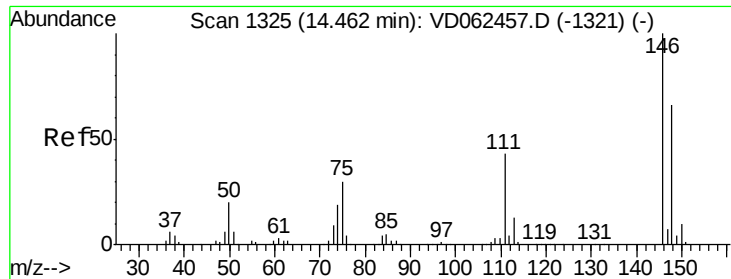
#86
 p-Isopropyltoluene
 Concen: 21.497 ug/l
 RT: 14.50 min Scan# 1329
 Delta R.T. -0.00 min
 Lab File: VD062456.D
 Acq: 20 May 2019 15:17

Tgt Ion:119 Resp: 501748
 Ion Ratio Lower Upper
 119 100
 134 22.5 12.8 38.3
 91 25.0 10.7 32.1



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

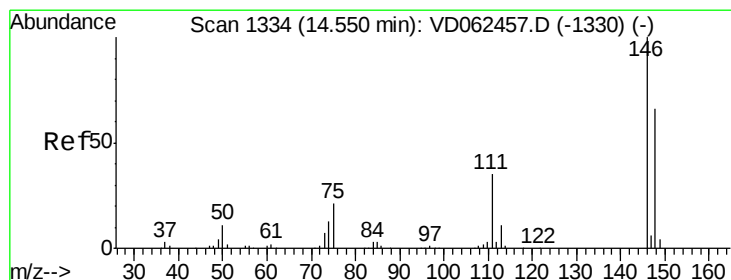
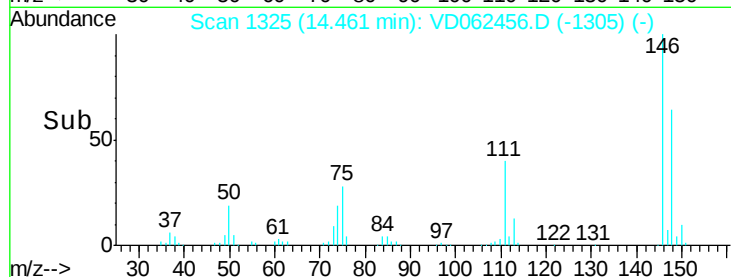
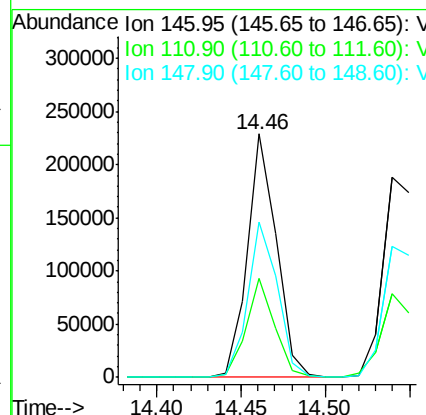
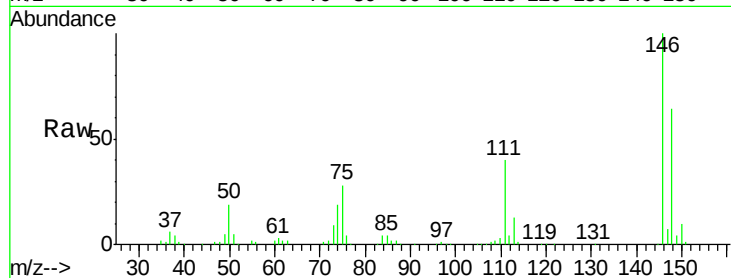




#87
 1,3-Dichlorobenzene
 Concen: 21.273 ug/l
 RT: 14.46 min Scan# 1325
 Delta R.T. -0.00 min
 Lab File: VD062456.D
 Acq: 20 May 2019 15:17

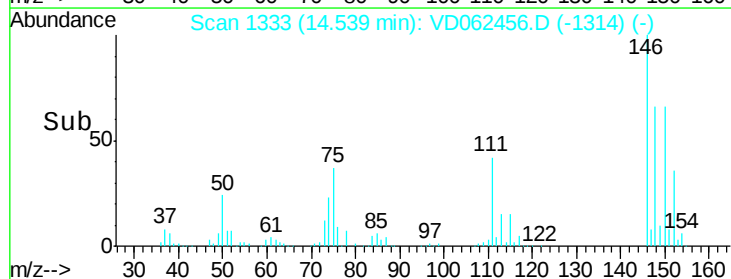
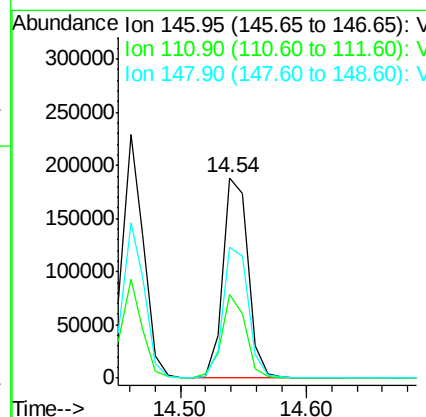
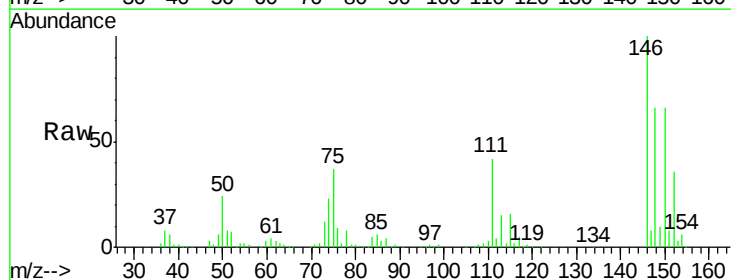
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

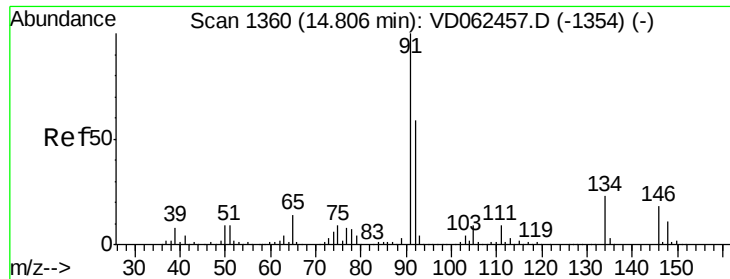
Tot Ion:146 Resp: 273859
 Ion Ratio Lower Upper
 146 100
 111 40.4 20.0 60.0
 148 63.8 31.8 95.4



#88
 1,4-Dichlorobenzene
 Concen: 20.648 ug/l
 RT: 14.54 min Scan# 1333
 Delta R.T. -0.01 min
 Lab File: VD062456.D
 Acq: 20 May 2019 15:17

Tgt Ion:146 Resp: 261184
 Ion Ratio Lower Upper
 146 100
 111 41.7 20.2 60.5
 148 65.5 32.0 96.2





#89

n-Butylbenzene

Concen: 23.557 ug/l

RT: 14.81 min Scan# 1360

Delta R.T. -0.00 min

Lab File: VD062456.D

Acq: 20 May 2019 15:17

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

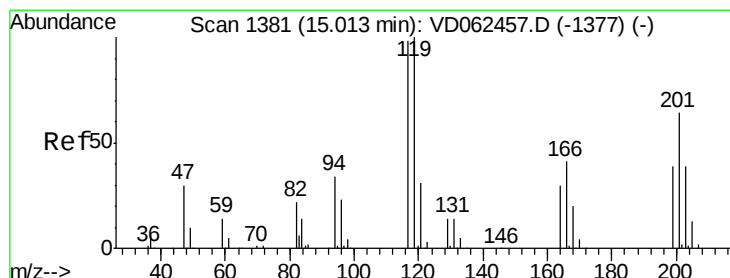
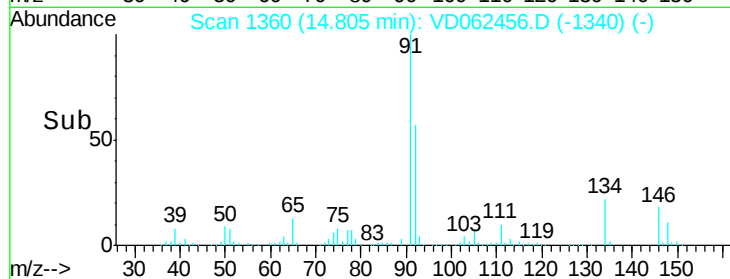
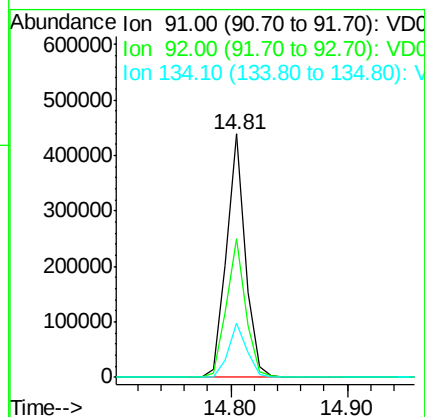
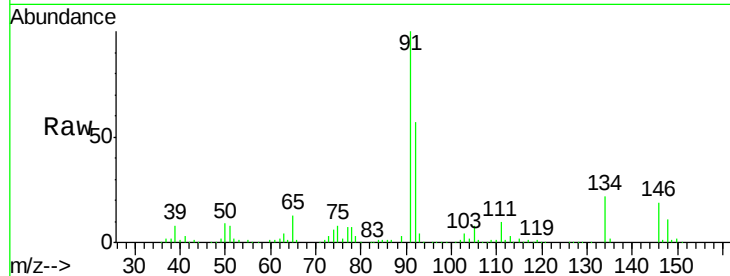
Tot Ion: 91 Resp: 493517

Ion Ratio Lower Upper

91 100

92 56.8 30.3 91.0

134 22.4 14.5 43.6



#90

Hexachloroethane

Concen: 19.921 ug/l

RT: 15.01 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VD062456.D

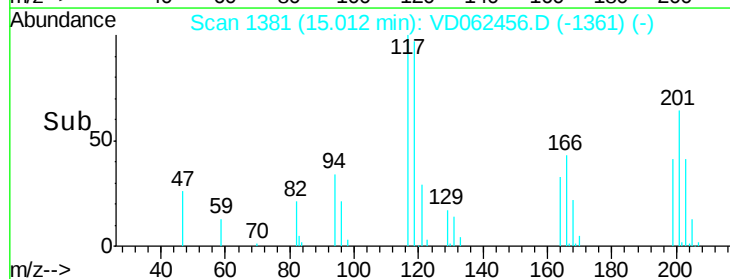
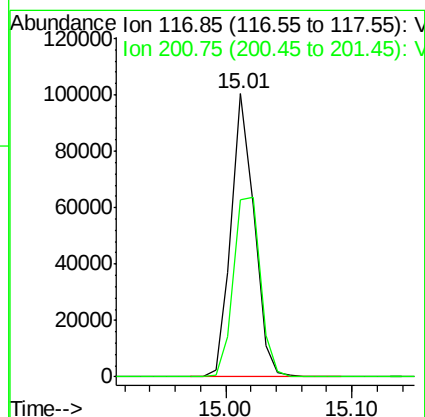
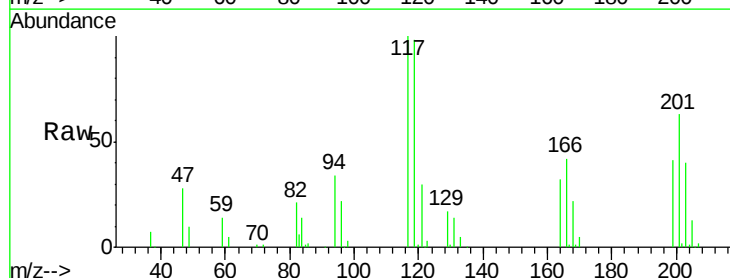
Acq: 20 May 2019 15:17

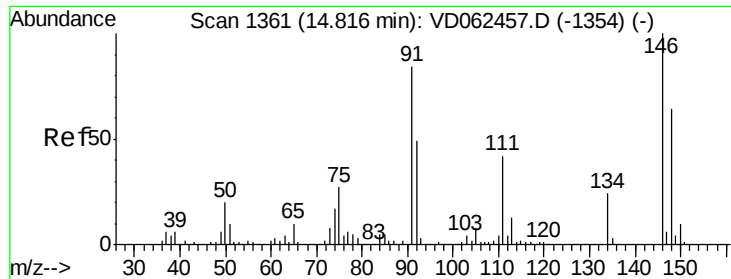
Tgt Ion: 117 Resp: 126448

Ion Ratio Lower Upper

117 100

201 62.8 30.2 90.6

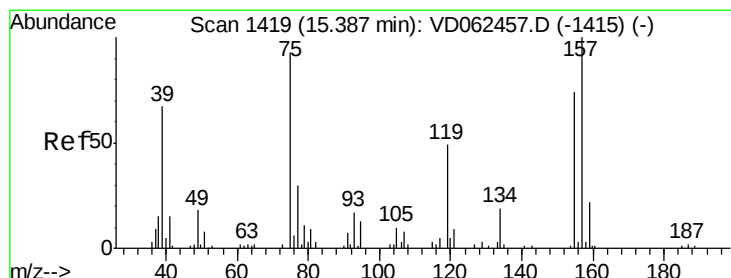
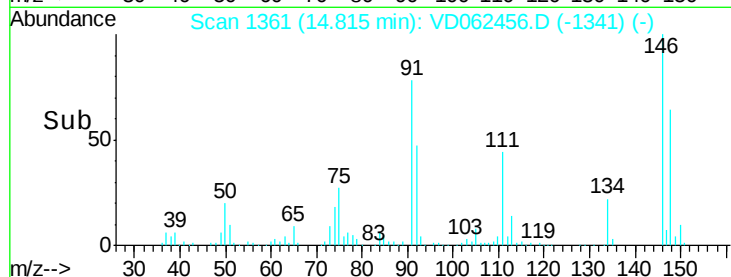
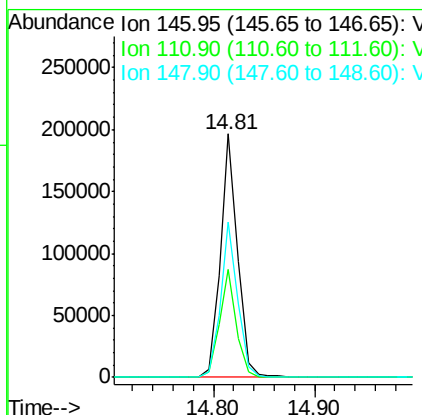
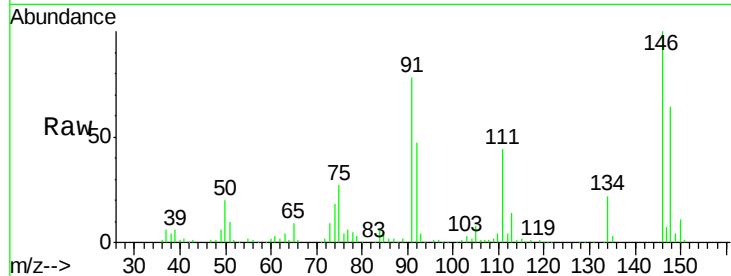




#91
 1,2-Dichlorobenzene
 Concen: 22.063 ug/l
 RT: 14.81 min Scan# 1361
 Delta R.T. -0.00 min
 Lab File: VD062456.D
 Acq: 20 May 2019 15:17

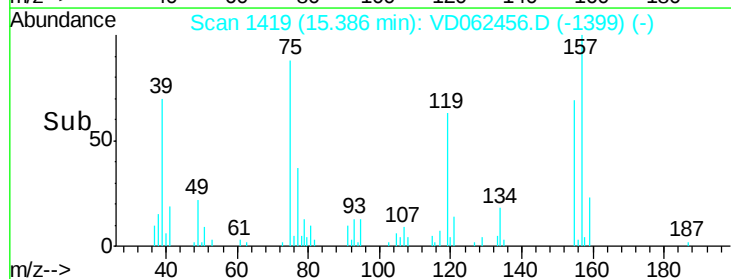
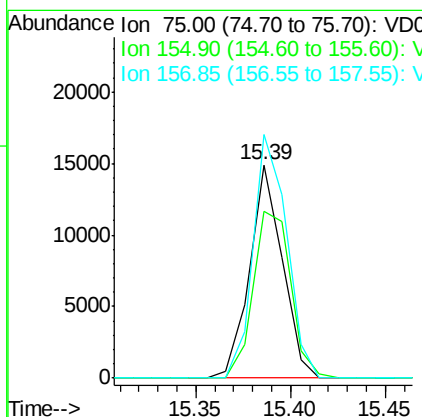
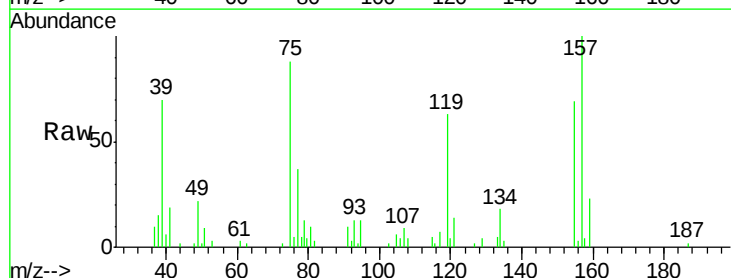
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

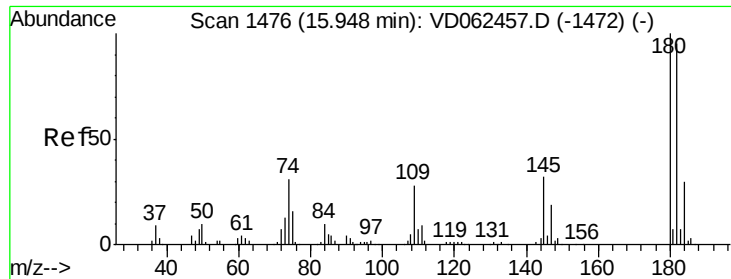
Tot Ion:146 Resp: 233912
 Ion Ratio Lower Upper
 146 100
 111 44.1 20.0 59.9
 148 63.9 32.3 96.8



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 22.913 ug/l
 RT: 15.39 min Scan# 1419
 Delta R.T. -0.00 min
 Lab File: VD062456.D
 Acq: 20 May 2019 15:17

Tgt Ion: 75 Resp: 17925
 Ion Ratio Lower Upper
 75 100
 155 78.5 55.3 165.8
 157 114.2 67.8 203.2

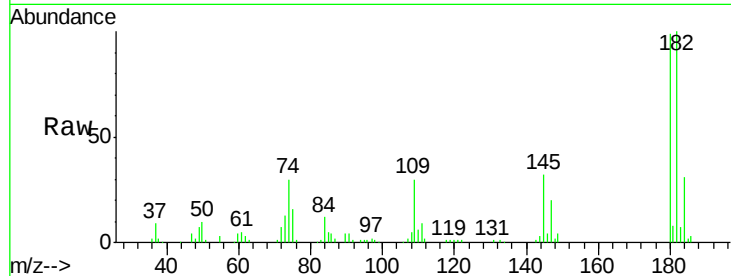




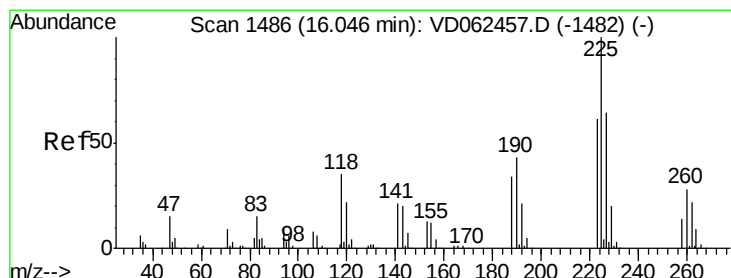
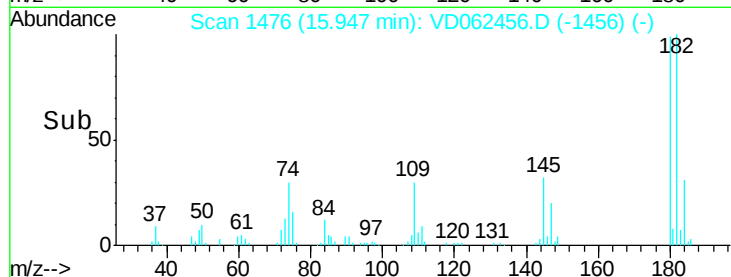
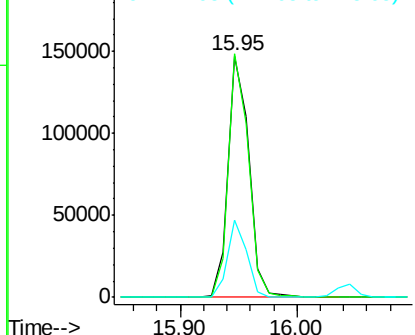
#93
 1,2,4-Trichlorobenzene
 Concen: 23.770 ug/l
 RT: 15.95 min Scan# 1476
 Delta R.T. -0.00 min
 Lab File: VD062456.D
 Acq: 20 May 2019 15:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion:180 Resp: 183434
 Ion Ratio Lower Upper
 180 100
 182 100.8 49.3 147.8
 145 31.9 16.2 48.6

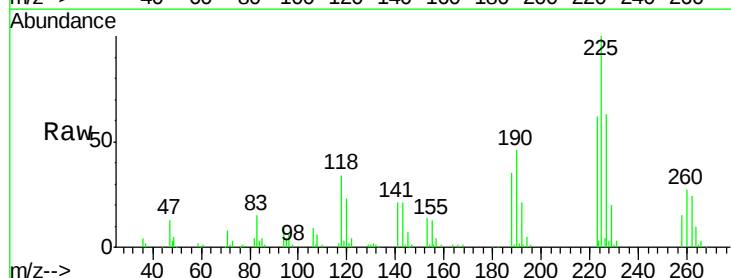


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

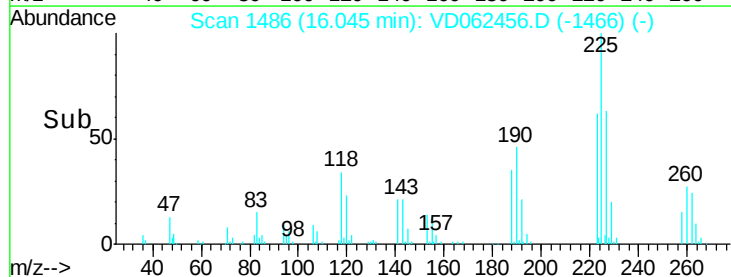
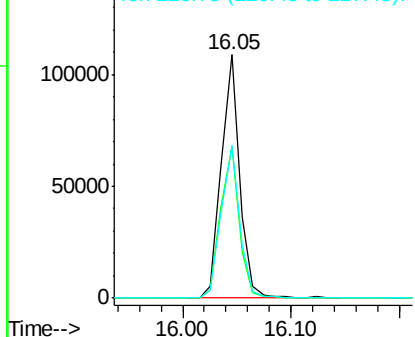


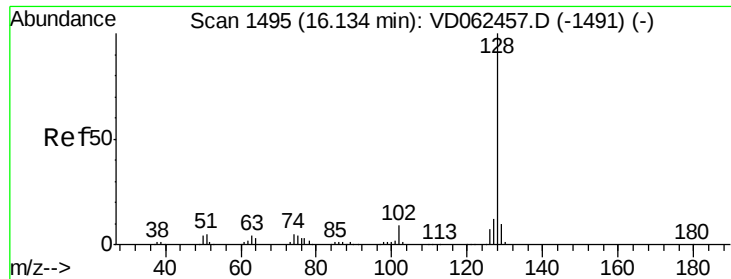
#94
 Hexachlorobutadiene
 Concen: 22.275 ug/l
 RT: 16.05 min Scan# 1486
 Delta R.T. -0.00 min
 Lab File: VD062456.D
 Acq: 20 May 2019 15:17

Tgt Ion:225 Resp: 127851
 Ion Ratio Lower Upper
 225 100
 223 62.2 30.6 92.0
 227 62.9 32.0 96.2



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





#95

Naphthalene

Concen: 19.973 ug/l

RT: 16.13 min Scan# 1495

Delta R.T. -0.00 min

Lab File: VD062456.D

Acq: 20 May 2019 15:17

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

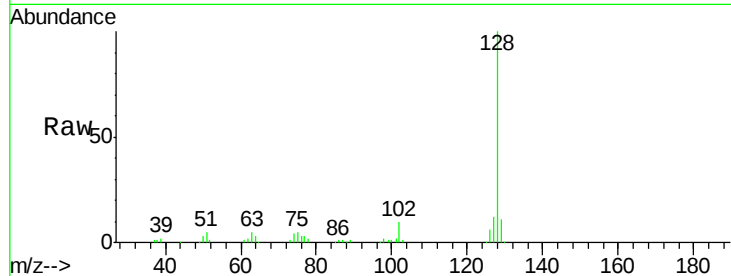
Tot Ion:128 Resp: 215179

Ion Ratio Lower Upper

128 100

127 12.3 9.8 14.8

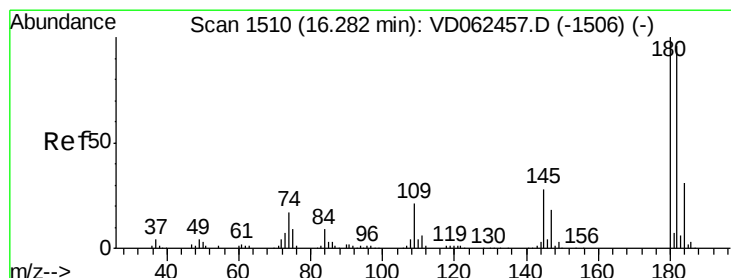
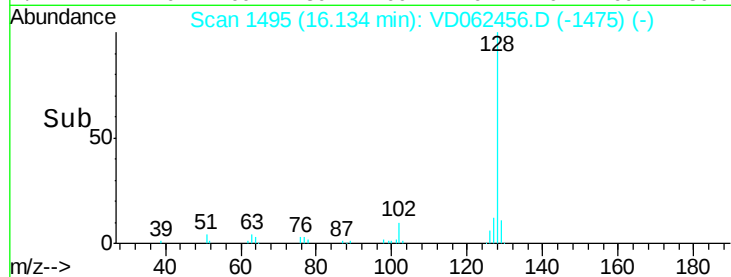
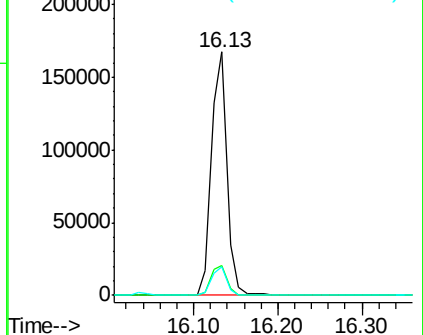
129 11.5 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 30.351 ug/l

RT: 16.28 min Scan# 1510

Delta R.T. -0.00 min

Lab File: VD062456.D

Acq: 20 May 2019 15:17

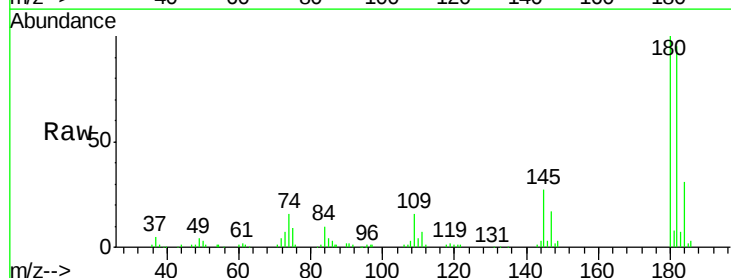
Tgt Ion:180 Resp: 147259

Ion Ratio Lower Upper

180 100

182 94.9 47.0 141.0

145 27.2 17.0 51.0



Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V

