

Data File : VV009892.D
Acq On : 26 Mar 2019 13:16
Operator : SY/MD
Sample : VSTD05063
Misc : 5.00G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD05063

Quant Time: Mar 26 14:09:46 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM032619S.M
Quant Title : VOC Analysis
QLast Update : Tue Mar 26 14:05:09 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	178439	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	184983	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	95867	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	169780	75.63	ug/L	0.00
7) Chloroethane-d5	1.57	69	170492	58.41	ug/L	0.00
10) 1,1-Dichloroethene-d2	2.13	63	465405	78.40	ug/L	0.00
20) 2-Butanone-d5	3.93	46	71150	105.20	ug/L	0.00
24) Chloroform-d	4.40	84	206475	47.71	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	137874	57.59	ug/L	0.00
29) Benzene-d6	5.10	84	474964	48.30	ug/L	0.00
33) 1,2-Dichloropropane-d6	6.12	67	142152	49.33	ug/L	0.00
37) Toluene-d8	7.36	98	468628	49.68	ug/L	0.00
38) trans-1,3-Dichloropropene-	7.66	79	63999	44.43	ug/L	0.00
39) 2-Hexanone-d5	8.13	63	59964	98.32	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	10.26	84	143034	50.82	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	11.67	152	178236	50.19	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	122988	54.449	ug/L	99
3) Chloromethane	1.25	50	138900	57.935	ug/L	99
5) Vinyl chloride	1.33	62	195696	73.468	ug/L	99
6) Bromomethane	1.51	94	175226	61.166	ug/L	98
8) Chloroethane	1.59	64	148625	65.436	ug/L	98
9) Trichlorofluoromethane	1.76	101	413537	76.993	ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	238128	79.903	ug/L	99
12) 1,1-Dichloroethene	2.14	96	205135	80.052	ug/L	90
13) Acetone	2.19	43	91045	117.743	ug/L	98
14) Carbon disulfide	2.32	76	287306	43.152	ug/L	100
15) Methyl Acetate	2.46	43	59568	58.301	ug/L	94
16) Methylene chloride	2.53	84	122023	50.487	ug/L	98
17) Methyl tert-butyl Ether	2.80	73	289529	51.924	ug/L	98
18) trans-1,2-Dichloroethene	2.79	96	111902	50.243	ug/L	98
19) 1,1-Dichloroethane	3.23	63	206273	52.133	ug/L	99
21) 2-Butanone	4.01	43	91914	95.386	ug/L	99
22) cis-1,2-Dichloroethene	3.96	96	130232	52.009	ug/L	91
23) Bromochloromethane	4.30	128	58746	52.277	ug/L	95
25) Chloroform	4.42	83	252796	58.710	ug/L	100
27) 1,2-Dichloroethane	5.18	62	162657	54.610	ug/L	99
30) Cyclohexane	4.73	56	178345	40.700	ug/L	99
31) 1,1,1-Trichloroethane	4.66	97	178045	40.527	ug/L	99
32) Carbon tetrachloride	4.88	117	157984	42.164	ug/L	99
34) Benzene	5.15	78	479891	46.529	ug/L	100
35) Trichloroethene	5.96	95	122356	42.858	ug/L	98
36) Methylcyclohexane	6.18	83	198455	39.812	ug/L	99
40) 1,2-Dichloropropane	6.22	63	124029	48.407	ug/L	# 95
41) Bromodichloromethane	6.55	83	160976	44.179	ug/L	99
42) cis-1,3-Dichloropropene	7.07	75	190410	46.770	ug/L	97
43) 4-Methyl-2-pentanone	7.27	43	184945	100.960	ug/L	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	7.43	91	552054	47.857	ug/L	98
45) trans-1,3-Dichloropropene	7.69	75	167045	45.259	ug/L	97
46) 1,1,2-Trichloroethane	7.88	97	101727	48.065	ug/L	98
47) Tetrachloroethene	8.02	164	97704	46.203	ug/L	96
49) 2-Hexanone	8.18	43	131095	85.708	ug/L	94
50) Dibromochloromethane	8.29	129	117858	44.520	ug/L	95
51) 1,2-Dibromoethane	8.40	107	103979	48.802	ug/L	95
52) Chlorobenzene	8.93	112	358904	48.035	ug/L	98
53) Ethylbenzene	9.05	91	628087	47.606	ug/L	99
54) m,p-Xylene	9.18	106	243957	47.468	ug/L	93
55) o-xylene	9.59	106	247873	50.870	ug/L	96
56) Styrene	9.60	104	439806	53.811	ug/L	96
57) Isopropylbenzene	9.97	105	636248	47.793	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.29	83	145629	50.601	ug/L #	99
59) 1,2,3-Trichloropropane	10.32	75	101934	49.729	ug/L	98
62) Bromoform	9.77	173	63703	37.015	ug/L	100
63) 1,3-Dichlorobenzene	11.23	146	278764	45.299	ug/L	99
64) 1,4-Dichlorobenzene	11.32	146	294652	47.970	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	276604	47.840	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	18791	32.916	ug/L	94
67) 1,3,5-Trichlorobenzene	12.69	180	202517	46.607	ug/L	98
68) 1,2,4-trichlorobenzene	13.31	180	166605	49.390	ug/L	99
69) Naphthalene	13.55	128	317023	46.415	ug/L	98
70) 1,2,3-Trichlorobenzene	13.79	180	155465	49.719	ug/L	99

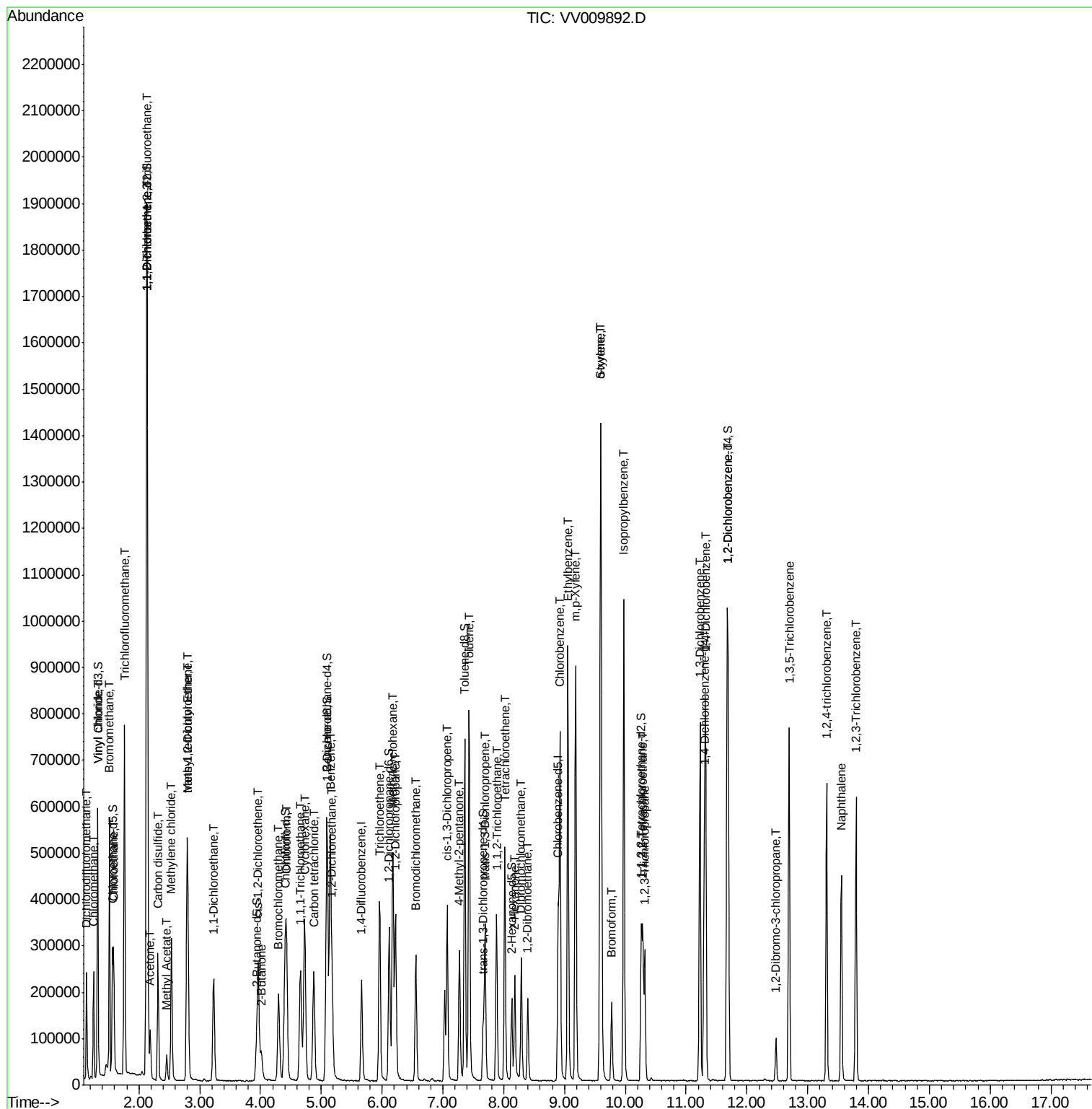
(#) = qualifier out of range (m) = manual integration (+) = signals summed

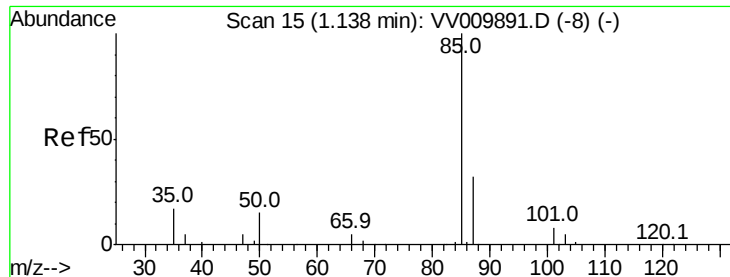
Data File : VV009892.D

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#2

Dichlorodifluoromethane

Concen: 54.449 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV009892.D

Acq: 26 Mar 2019 13:16

Instrument :

MSVOA_V

ClientSampleId :

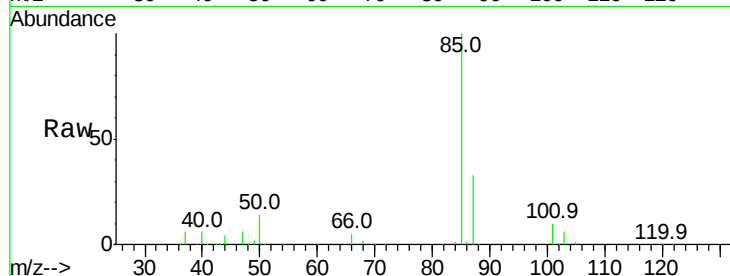
VSTD05063

Tgt Ion: 85 Resp: 122988

Ion Ratio Lower Upper

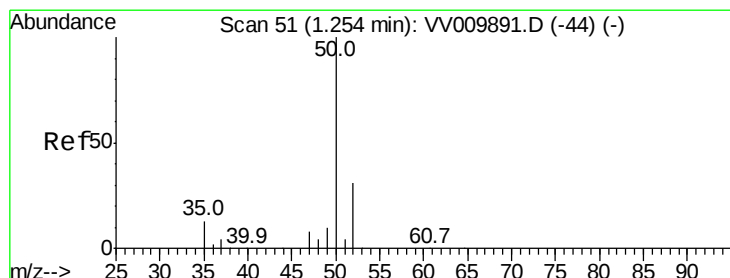
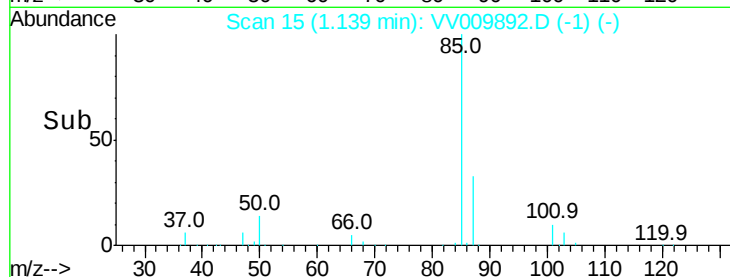
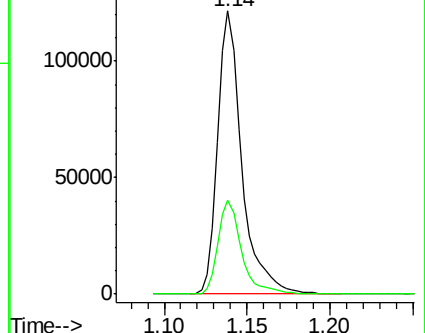
85 100

87 32.4 22.2 41.2



Abundance Ion 85.00 (84.70 to 85.70): VV009892.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV009892.D (-8) (-)



#3

Chloromethane

Concen: 57.935 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV009892.D

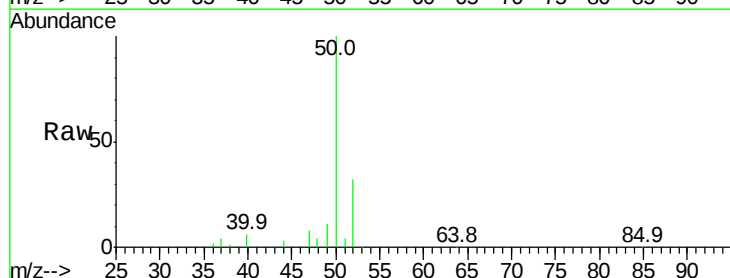
Acq: 26 Mar 2019 13:16

Tgt Ion: 50 Resp: 138900

Ion Ratio Lower Upper

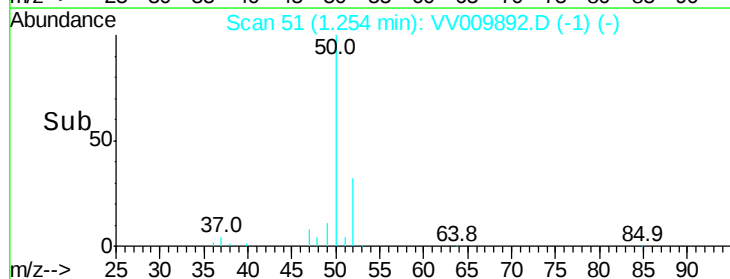
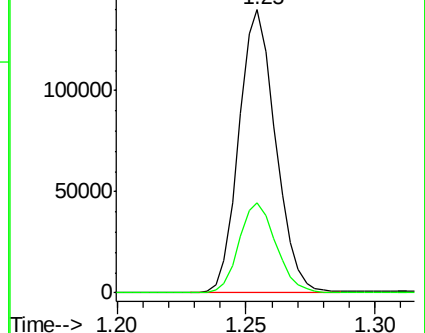
50 100

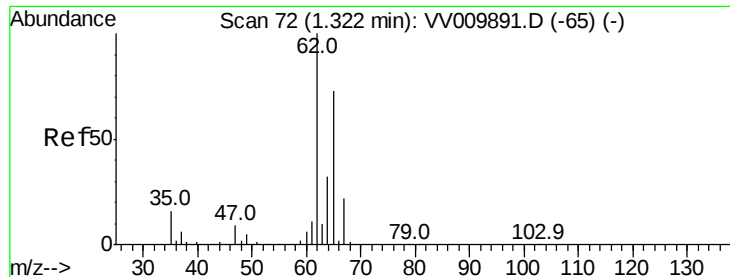
52 32.0 21.8 40.6



Abundance Ion 50.00 (49.70 to 50.70): VV009892.D (-44) (-)

Ion 52.00 (51.70 to 52.70): VV009892.D (-44) (-)





#5

Vinyl chloride

Concen: 73.468 ug/L

RT: 1.33 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV009892.D

Acq: 26 Mar 2019 13:16

Instrument :

MSVOA_V

ClientSampleId :

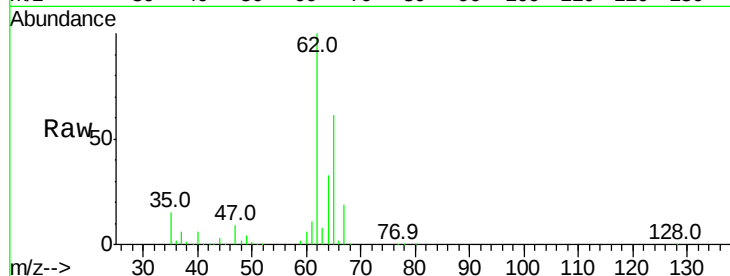
VSTD05063

Tgt Ion: 62 Resp: 195696

Ion Ratio Lower Upper

62 100

64 33.1 22.8 42.4



Abundance Ion 62.00 (61.70 to 62.70): VV009892.D (-65) (-)

Ion 64.00 (63.70 to 64.70): VV009892.D (-65) (-)

1.33

200000

150000

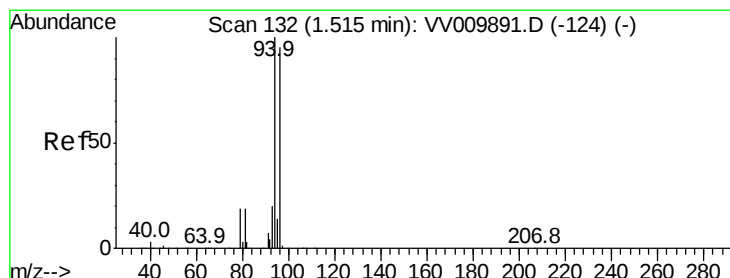
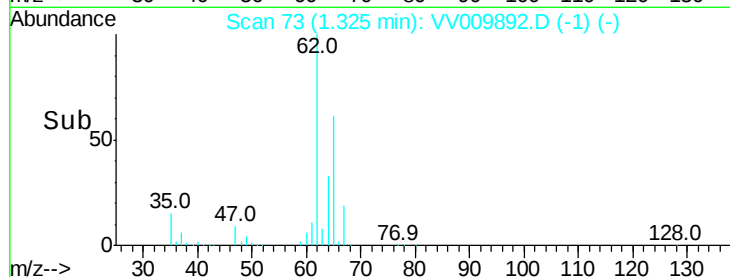
100000

50000

0

1.30 1.35 1.40

Time-->



#6

Bromomethane

Concen: 61.166 ug/L

RT: 1.51 min Scan# 132

Delta R.T. 0.00 min

Lab File: VV009892.D

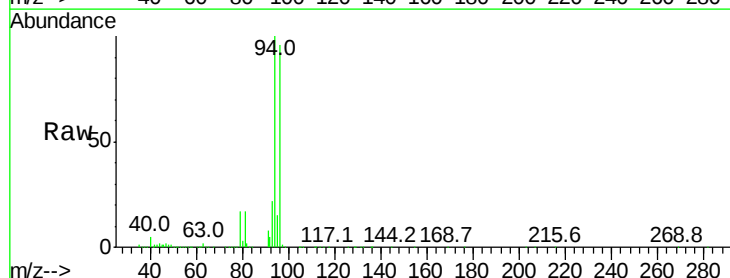
Acq: 26 Mar 2019 13:16

Tgt Ion: 94 Resp: 175226

Ion Ratio Lower Upper

94 100

96 95.9 9.4 179.4



Abundance Ion 94.00 (93.70 to 94.70): VV009892.D (-124) (-)

Ion 96.00 (95.70 to 96.70): VV009892.D (-124) (-)

1.51

200000

150000

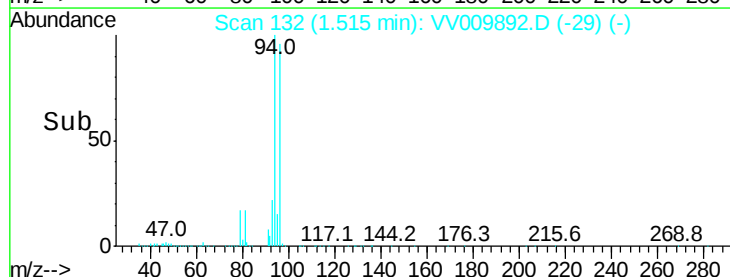
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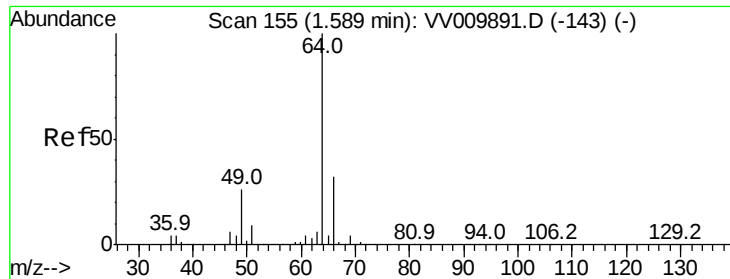
50000

0

1.45 1.50 1.55

Time-->

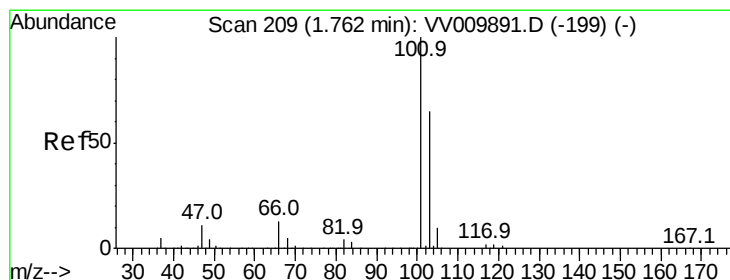
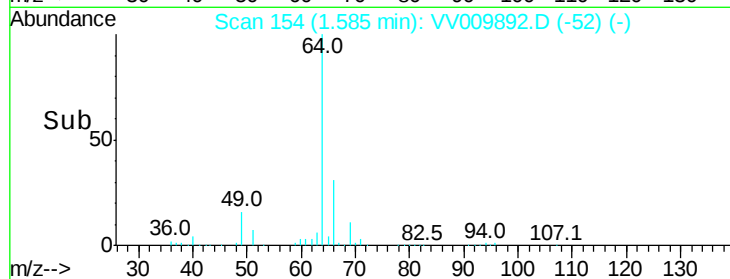
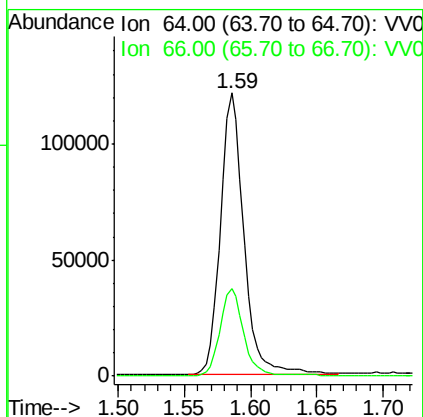
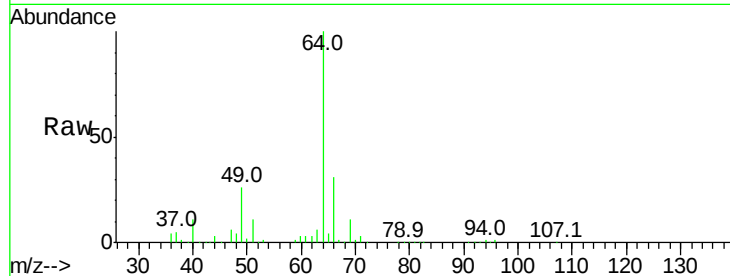




#8
Chloroethane
Concen: 65.436 ug/L
RT: 1.59 min Scan# 154
Delta R.T. -0.00 min
Lab File: VV009892.D
Acq: 26 Mar 2019 13:16

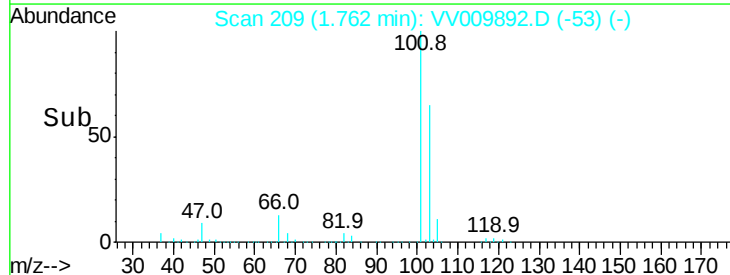
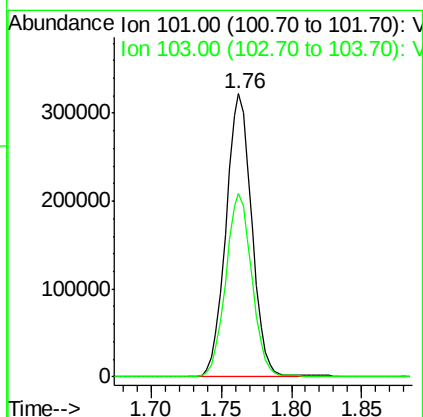
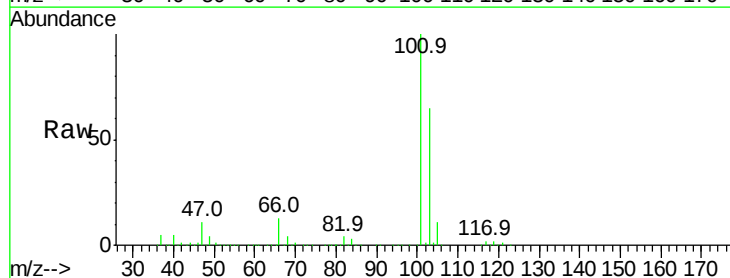
Instrument :
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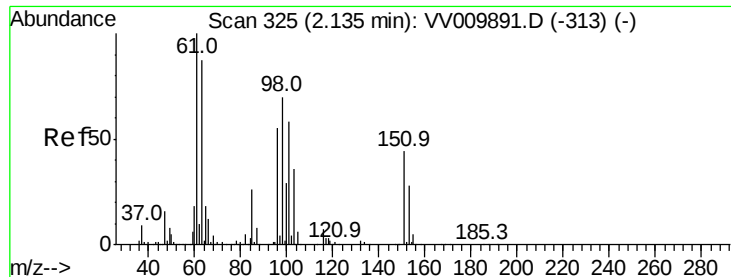
Tgt Ion: 64 Resp: 148625
Ion Ratio Lower Upper
64 100
66 30.9 22.3 41.5



#9
Trichlorofluoromethane
Concen: 76.993 ug/L
RT: 1.76 min Scan# 209
Delta R.T. 0.00 min
Lab File: VV009892.D
Acq: 26 Mar 2019 13:16

Tgt Ion: 101 Resp: 413537
Ion Ratio Lower Upper
101 100
103 65.2 45.1 83.9





#11

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 79.903 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV009892.D

Acq: 26 Mar 2019 13:16

Instrument :

MSVOA_V

ClientSampleId :

VSTD05063

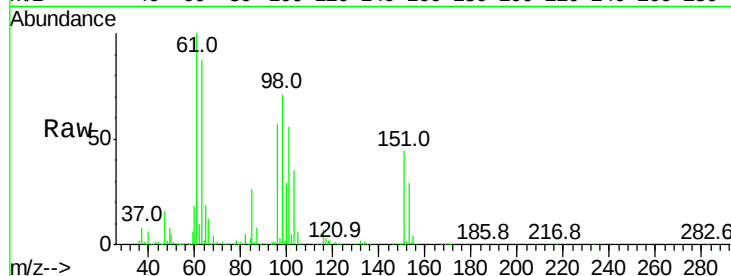
Tgt Ion: 101 Resp: 238128

Ion Ratio Lower Upper

101 100

85 45.9 36.9 55.3

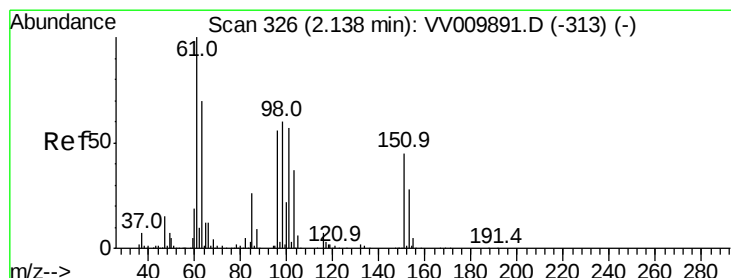
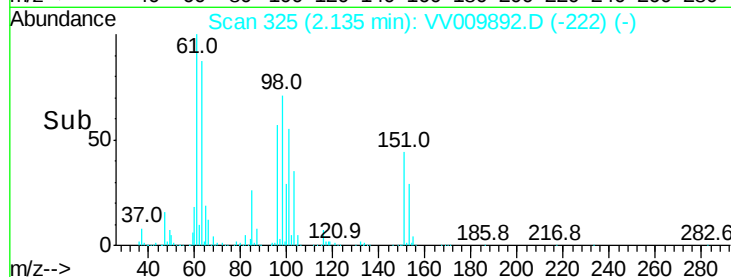
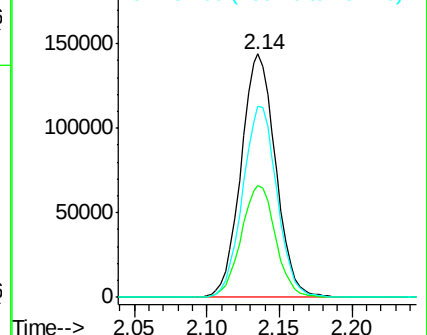
151 78.1 63.6 95.4



Abundance Ion 101.00 (100.70 to 101.70): VV009891.D (-313) (-)

Ion 85.00 (84.70 to 85.70): VV009891.D (-313) (-)

Ion 151.00 (150.70 to 151.70): VV009891.D (-313) (-)



#12

1,1-Dichloroethene

Concen: 80.052 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV009892.D

Acq: 26 Mar 2019 13:16

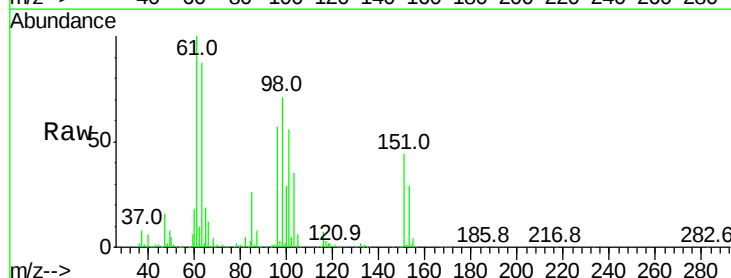
Tgt Ion: 96 Resp: 205135

Ion Ratio Lower Upper

96 100

61 176.3 124.3 230.8

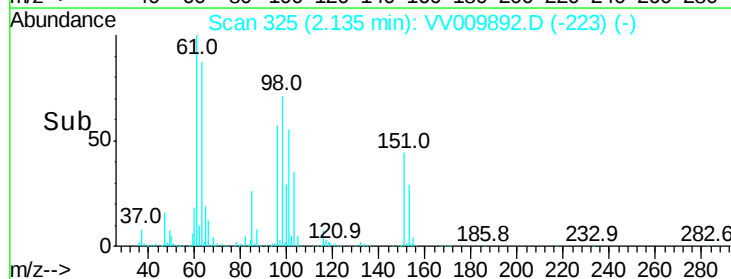
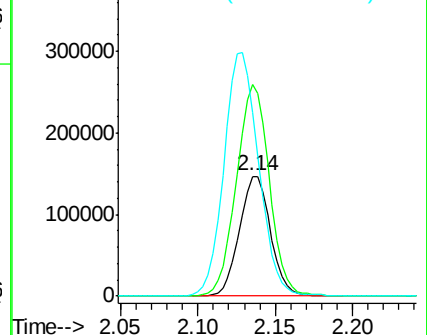
63 153.5 88.2 163.8

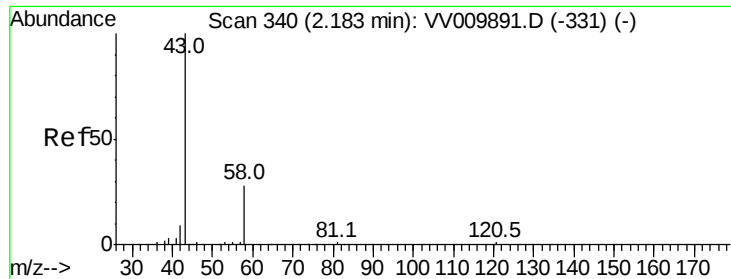


Abundance Ion 96.00 (95.70 to 96.70): VV009891.D (-313) (-)

Ion 61.00 (60.70 to 61.70): VV009891.D (-313) (-)

Ion 63.00 (62.70 to 63.70): VV009891.D (-313) (-)





#13

Acetone

Concen: 117.743 ug/L

RT: 2.19 min Scan# 341

Delta R.T. 0.00 min

Lab File: VV009892.D

Acq: 26 Mar 2019 13:16

Instrument :

MSVOA_V

ClientSampleId :

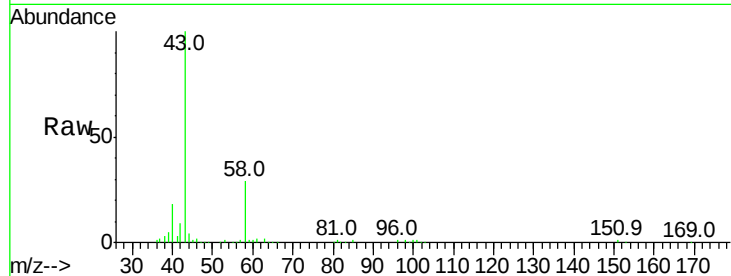
VSTD05063

Tgt Ion: 43 Resp: 91045

Ion Ratio Lower Upper

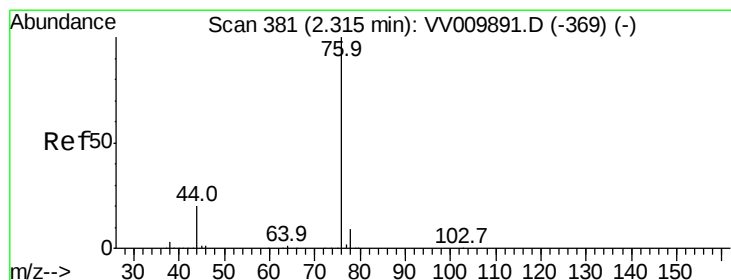
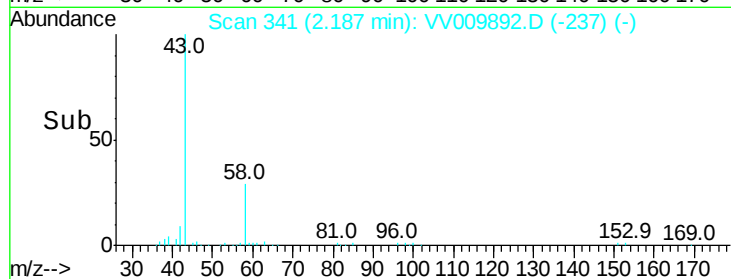
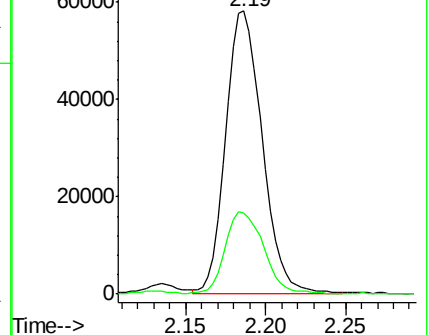
43 100

58 30.9 0.0 59.4



Abundance Ion 43.00 (42.70 to 43.70): VV009891.D (-331) (-)

Ion 58.00 (57.70 to 58.70): VV009891.D (-331) (-)



#14

Carbon disulfide

Concen: 43.152 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV009892.D

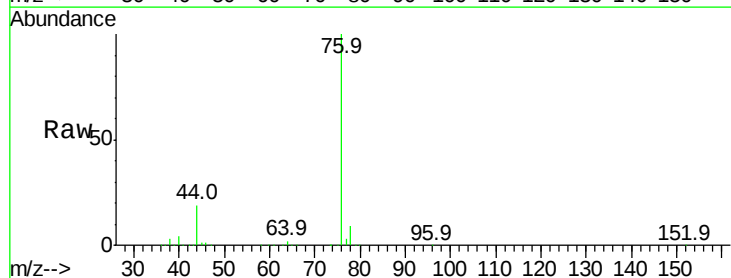
Acq: 26 Mar 2019 13:16

Tgt Ion: 76 Resp: 287306

Ion Ratio Lower Upper

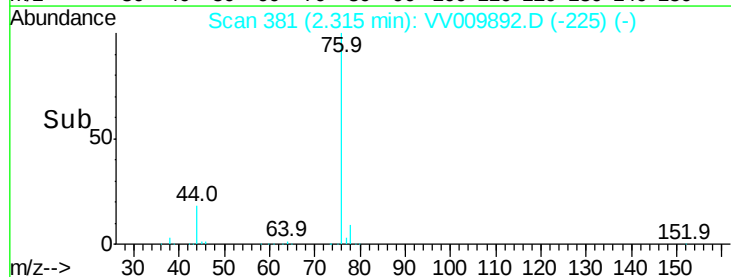
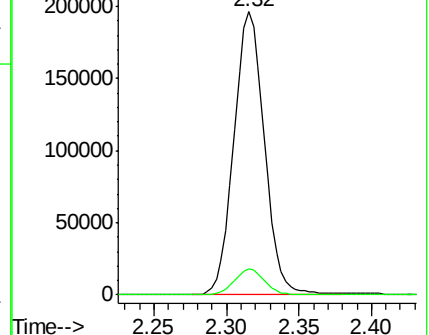
76 100

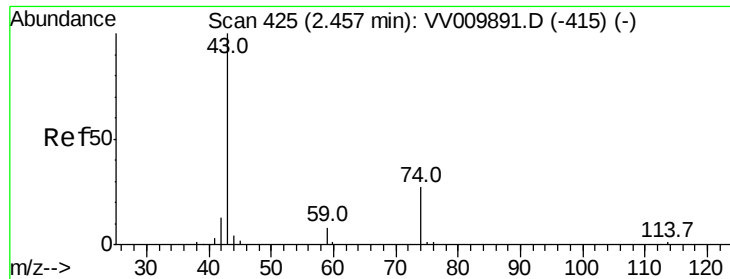
78 9.2 7.5 11.3



Abundance Ion 76.00 (75.70 to 76.70): VV009891.D (-369) (-)

Ion 78.00 (77.70 to 78.70): VV009891.D (-369) (-)

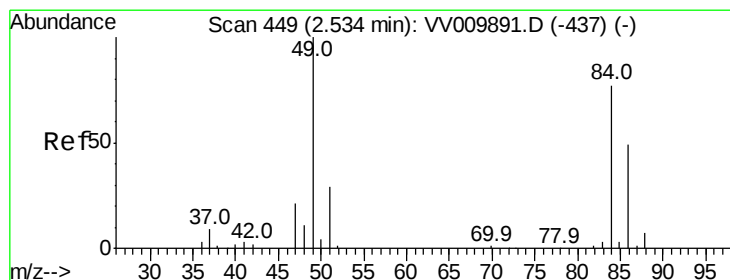
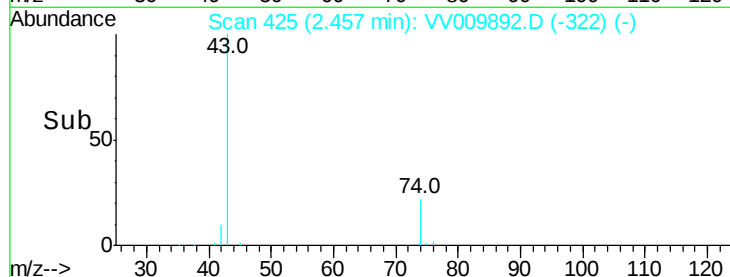
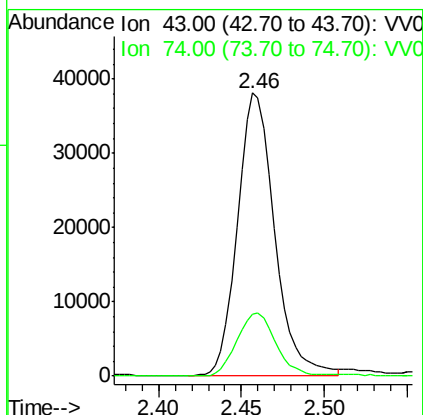
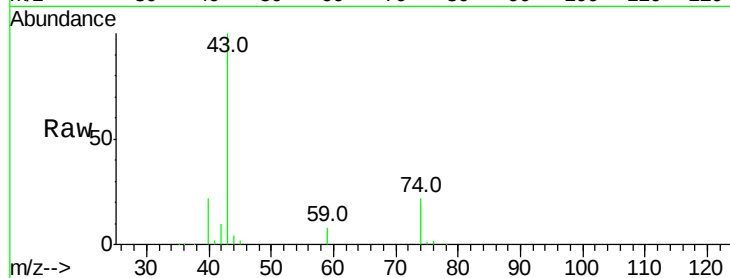




#15
Methyl Acetate
Concen: 58.301 ug/L
RT: 2.46 min Scan# 425
Delta R.T. 0.00 min
Lab File: VV009892.D
Acq: 26 Mar 2019 13:16

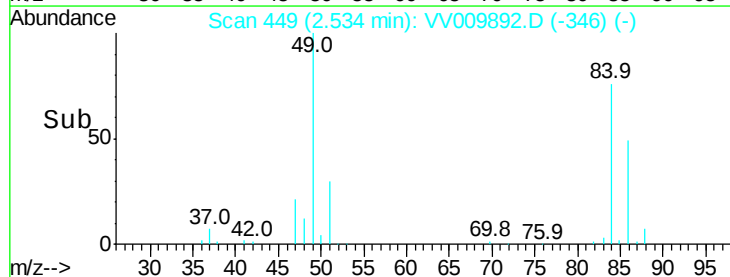
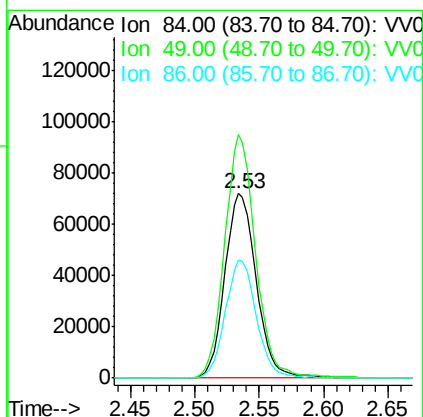
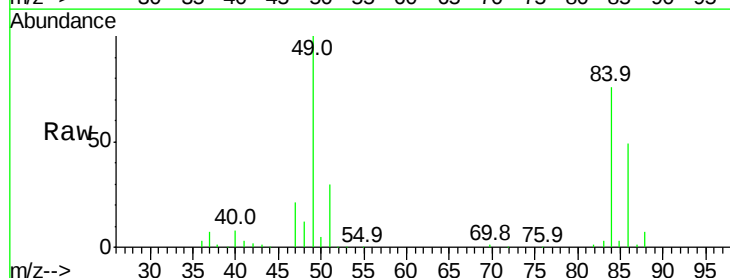
Instrument :
MSVOA_V
ClientSampleId :
VSTD05063

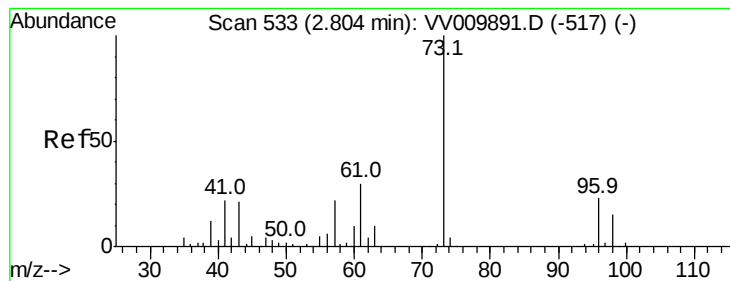
Tgt Ion: 43 Resp: 59568
Ion Ratio Lower Upper
43 100
74 23.3 20.9 31.3



#16
Methylene chloride
Concen: 50.487 ug/L
RT: 2.53 min Scan# 449
Delta R.T. 0.00 min
Lab File: VV009892.D
Acq: 26 Mar 2019 13:16

Tgt Ion: 84 Resp: 122023
Ion Ratio Lower Upper
84 100
49 132.1 90.4 167.8
86 64.1 44.0 81.6





#17

Methyl tert-butyl Ether

Concen: 51.924 ug/L

RT: 2.80 min Scan# 533

Delta R.T. 0.00 min

Lab File: VV009892.D

Acq: 26 Mar 2019 13:16

Instrument :

MSVOA_V

ClientSampleId :

VSTD05063

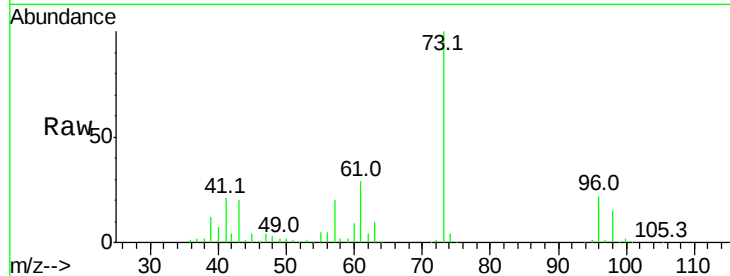
Tgt Ion: 73 Resp: 289529

Ion Ratio Lower Upper

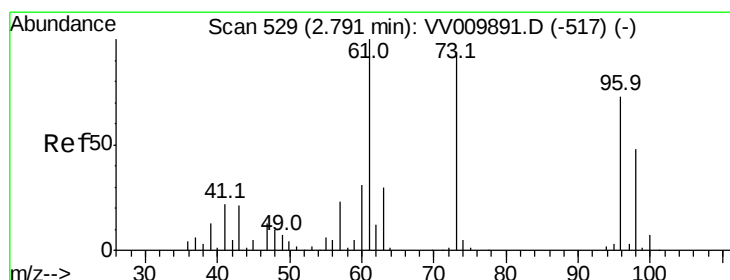
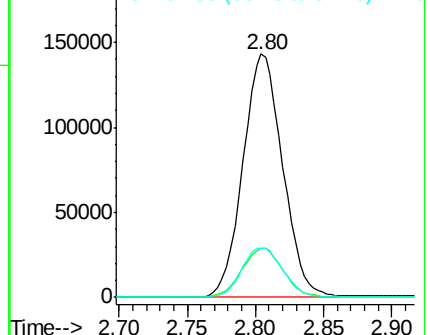
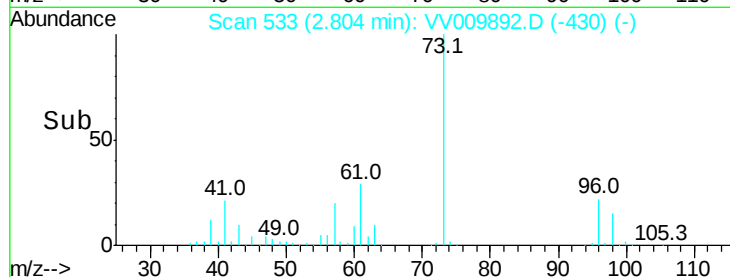
73 100

43 20.6 17.0 25.6

57 21.0 18.0 27.0



Abundance Ion 73.00 (72.70 to 73.70): VV009892.D (-430) (-)



#18

trans-1,2-Dichloroethene

Concen: 50.243 ug/L

RT: 2.79 min Scan# 529

Delta R.T. 0.00 min

Lab File: VV009892.D

Acq: 26 Mar 2019 13:16

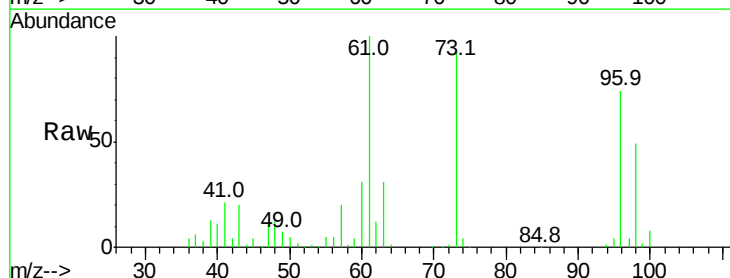
Tgt Ion: 96 Resp: 111902

Ion Ratio Lower Upper

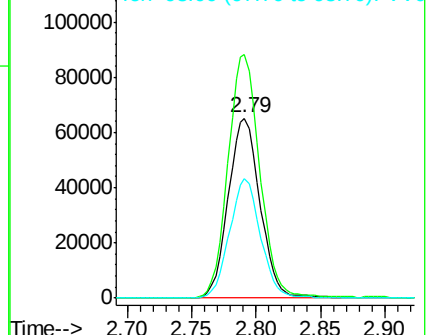
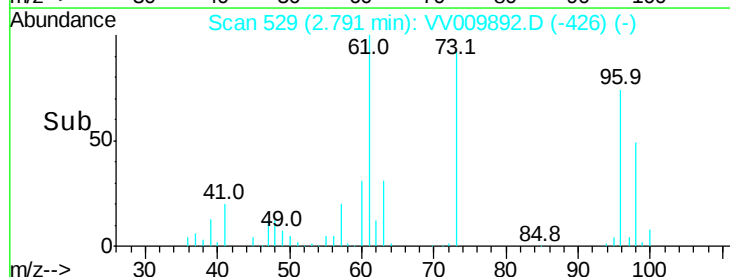
96 100

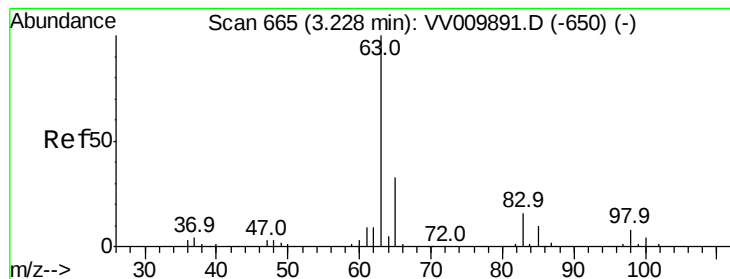
61 135.4 96.8 179.8

98 66.5 46.1 85.7



Abundance Ion 96.00 (95.70 to 96.70): VV009892.D (-426) (-)





#19

1,1-Dichloroethane

Concen: 52.133 ug/L

RT: 3.23 min Scan# 665

Delta R.T. 0.00 min

Lab File: VV009892.D

Acq: 26 Mar 2019 13:16

Instrument :

MSVOA_V

ClientSampleId :

VSTD05063

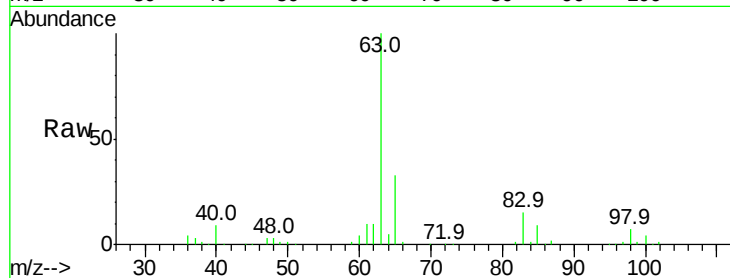
Tgt Ion: 63 Resp: 206273

Ion Ratio Lower Upper

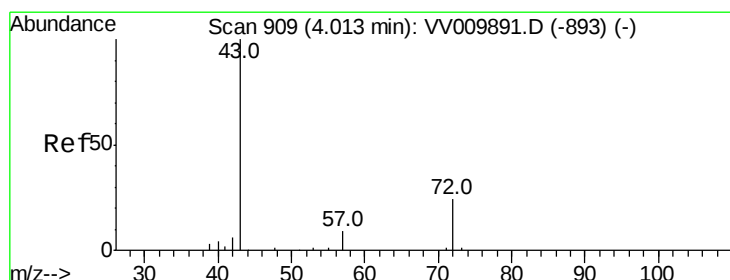
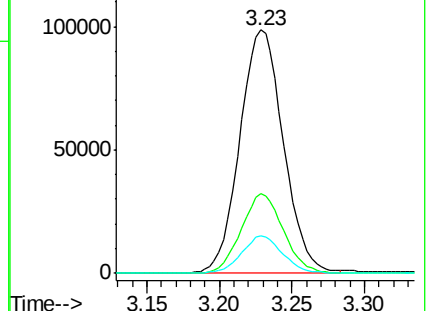
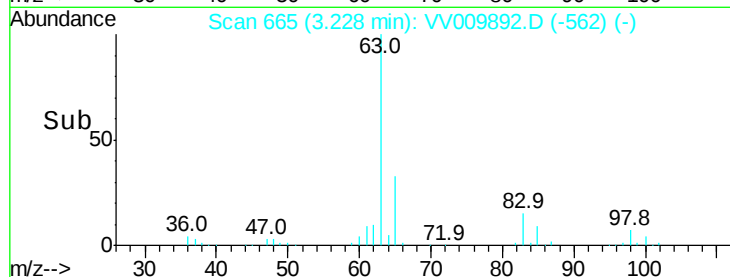
63 100

65 32.6 23.2 43.0

83 15.3 11.3 21.1



Abundance Ion 63.00 (62.70 to 63.70): VV009892.D (-562) (-)



#21

2-Butanone

Concen: 95.386 ug/L

RT: 4.01 min Scan# 909

Delta R.T. 0.00 min

Lab File: VV009892.D

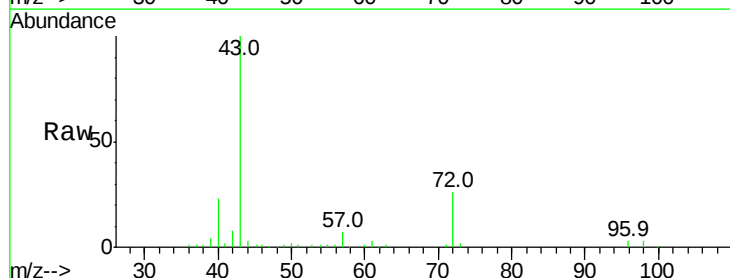
Acq: 26 Mar 2019 13:16

Tgt Ion: 43 Resp: 91914

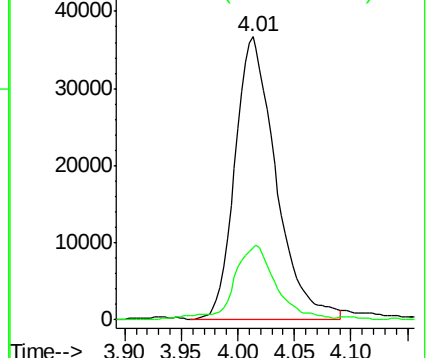
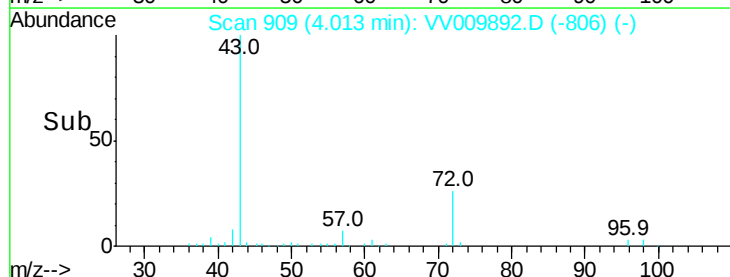
Ion Ratio Lower Upper

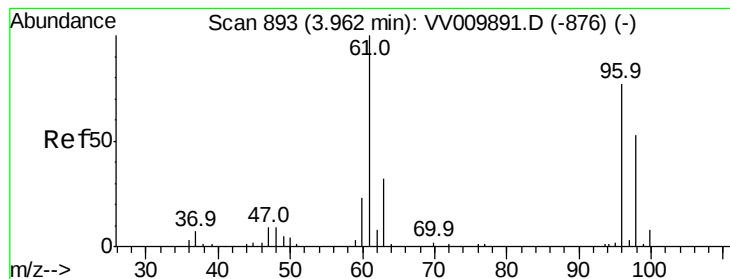
43 100

72 22.5 11.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VV009892.D (-806) (-)



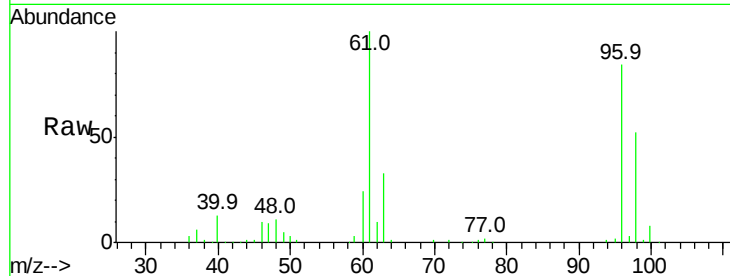


#22

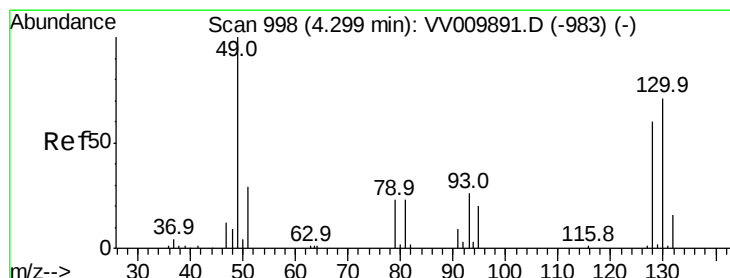
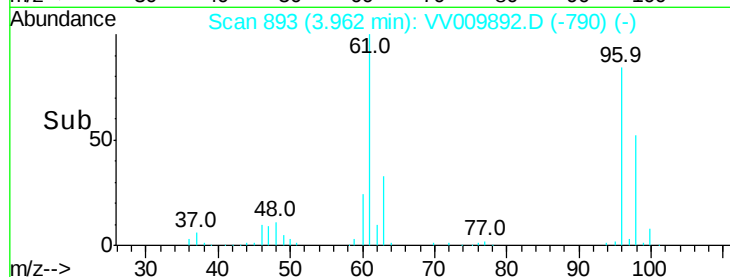
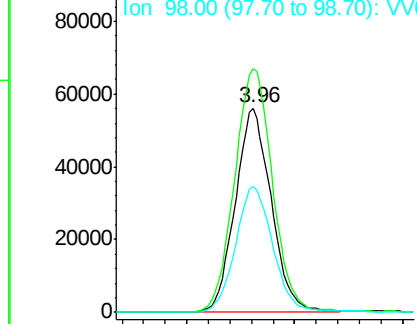
cis-1,2-Dichloroethene
Concen: 52.009 ug/L
RT: 3.96 min Scan# 893
Delta R.T. 0.00 min
Lab File: VV009892.D
Acq: 26 Mar 2019 13:16

Instrument :
MSVOA_V
ClientSampleId :
VSTD05063

Tgt Ion: 96 Resp: 130232
Ion Ratio Lower Upper
96 100
61 119.4 91.4 169.8
98 61.7 48.0 89.2



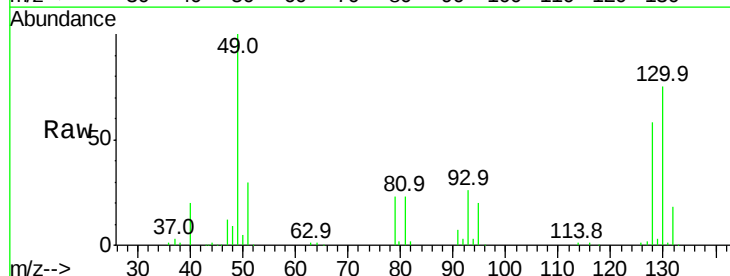
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0



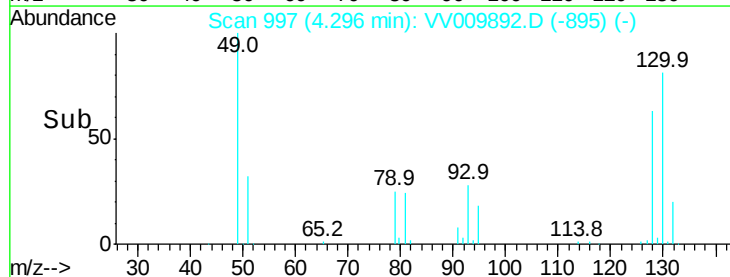
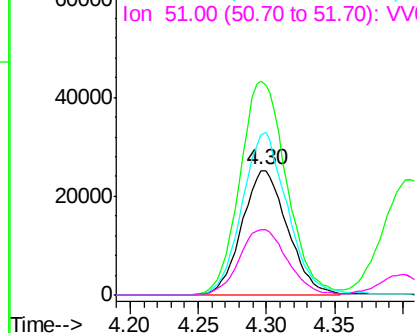
#23

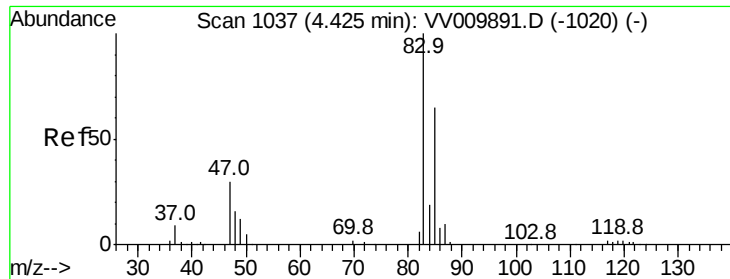
Bromochloromethane
Concen: 52.277 ug/L
RT: 4.30 min Scan# 997
Delta R.T. -0.00 min
Lab File: VV009892.D
Acq: 26 Mar 2019 13:16

Tgt Ion: 128 Resp: 58746
Ion Ratio Lower Upper
128 100
49 171.5 118.2 219.6
130 128.6 83.4 154.8
51 52.2 39.4 59.2



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VV0
Ion 130.00 (129.70 to 130.70): V
Ion 51.00 (50.70 to 51.70): VV0





#25

Chloroform

Concen: 58.710 ug/L

RT: 4.42 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VV009892.D

Acq: 26 Mar 2019 13:16

Instrument :

MSVOA_V

ClientSampleId :

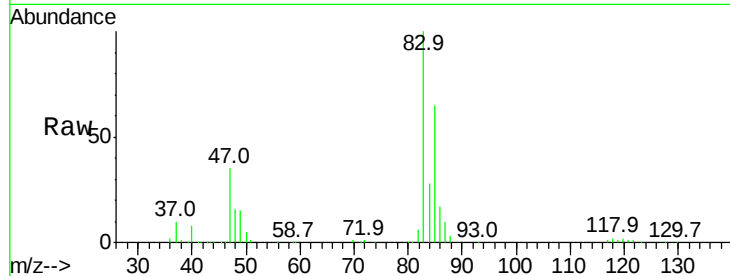
VSTD05063

Tgt Ion: 83 Resp: 252796

Ion Ratio Lower Upper

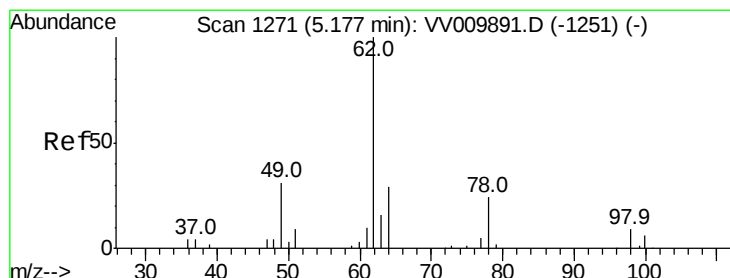
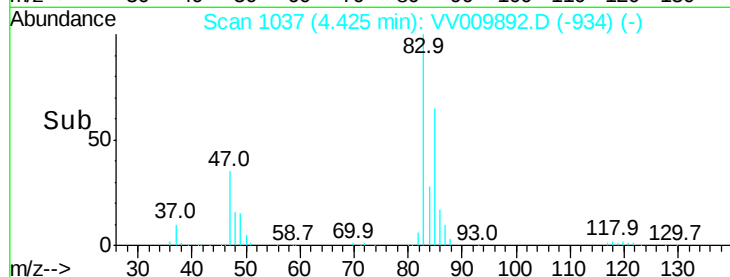
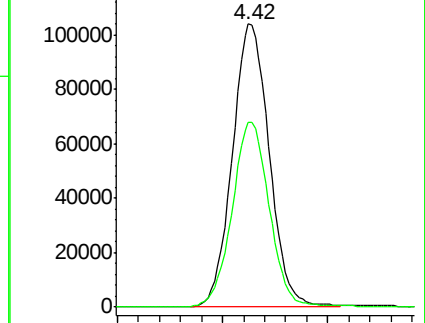
83 100

85 66.0 46.1 85.7



Abundance Ion 83.00 (82.70 to 83.70): VV009892.D (-934) (-)

Ion 85.00 (84.70 to 85.70): VV009892.D (-934) (-)



#27

1,2-Dichloroethane

Concen: 54.610 ug/L

RT: 5.18 min Scan# 1272

Delta R.T. 0.00 min

Lab File: VV009892.D

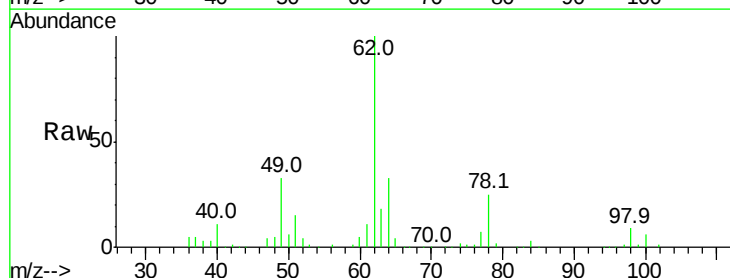
Acq: 26 Mar 2019 13:16

Tgt Ion: 62 Resp: 162657

Ion Ratio Lower Upper

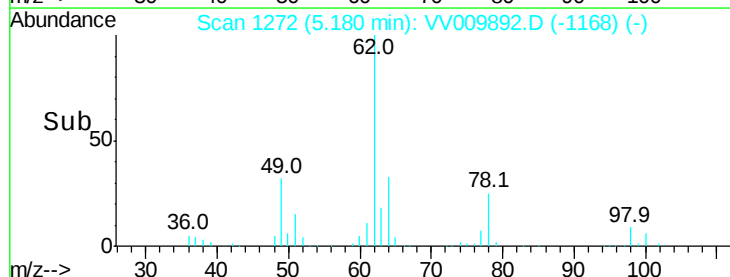
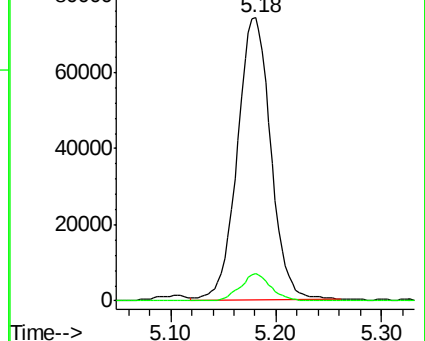
62 100

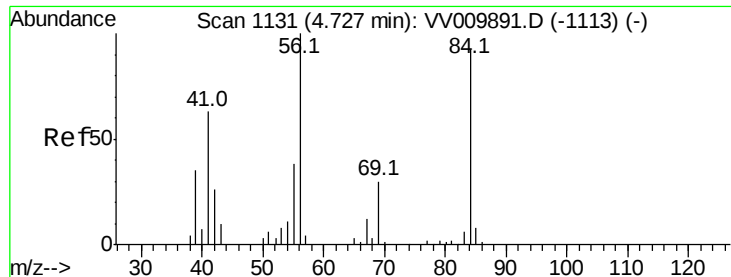
98 9.5 7.2 10.8



Abundance Ion 62.00 (61.70 to 62.70): VV009892.D (-1168) (-)

Ion 98.00 (97.70 to 98.70): VV009892.D (-1168) (-)

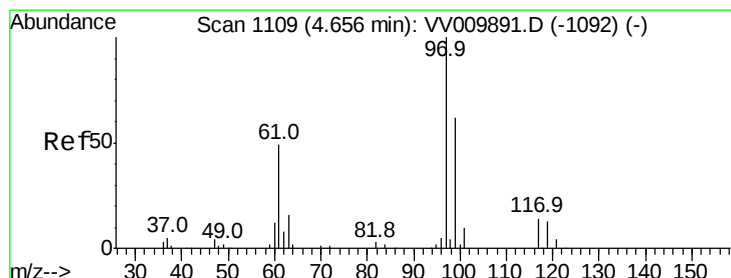
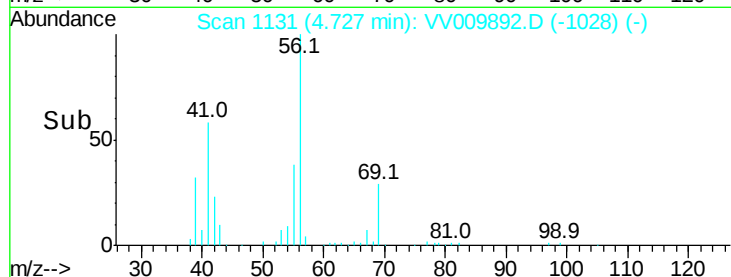
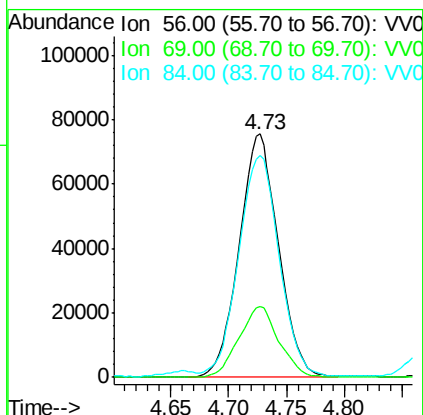
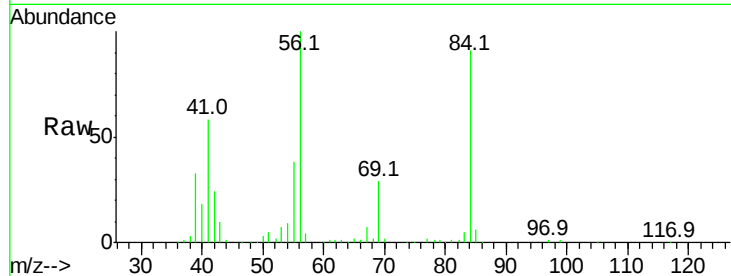




#30
Cyclohexane
Concen: 40.700 ug/L
RT: 4.73 min Scan# 1131
Delta R.T. 0.00 min
Lab File: VV009892.D
Acq: 26 Mar 2019 13:16

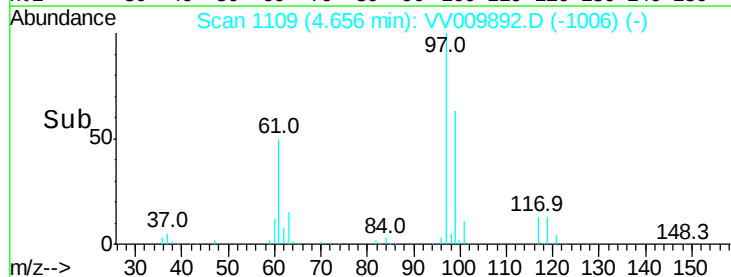
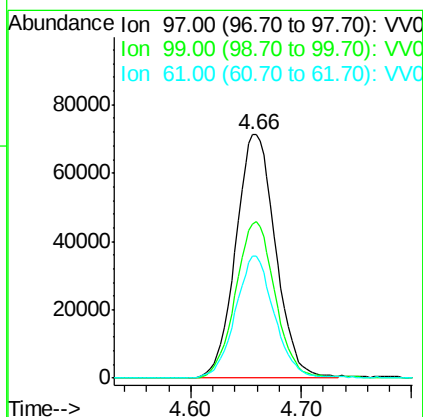
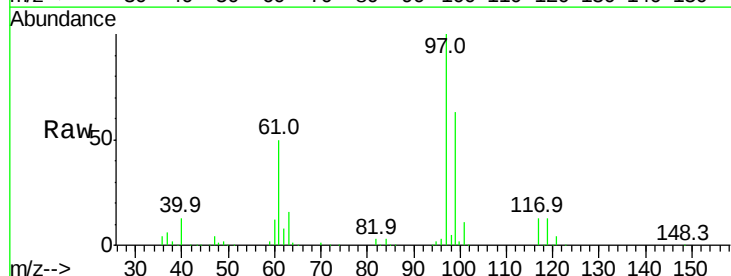
Instrument :
MSVOA_V
ClientSampleId :
VSTD05063

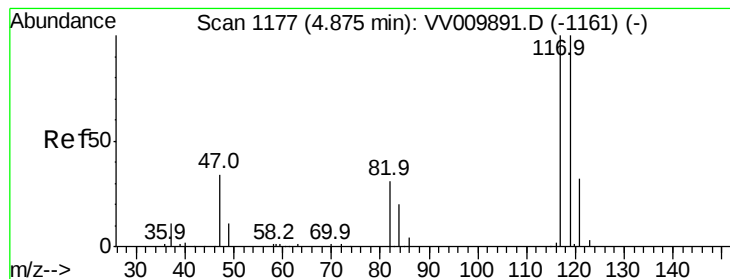
Tgt Ion: 56 Resp: 178345
Ion Ratio Lower Upper
56 100
69 29.5 24.5 36.7
84 94.0 75.6 113.4



#31
1,1,1-Trichloroethane
Concen: 40.527 ug/L
RT: 4.66 min Scan# 1109
Delta R.T. 0.00 min
Lab File: VV009892.D
Acq: 26 Mar 2019 13:16

Tgt Ion: 97 Resp: 178045
Ion Ratio Lower Upper
97 100
99 63.4 51.5 77.3
61 48.7 39.4 59.0





#32

Carbon tetrachloride

Concen: 42.164 ug/L

RT: 4.88 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VV009892.D

Acq: 26 Mar 2019 13:16

Instrument :

MSVOA_V

ClientSampleId :

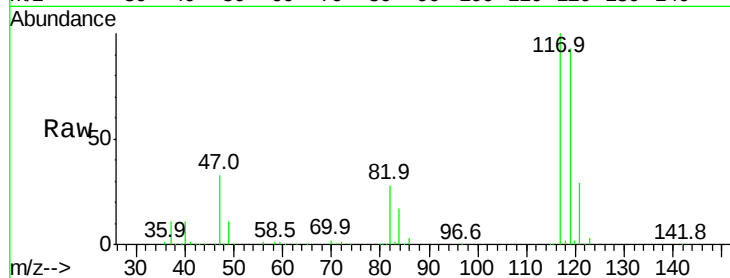
VSTD05063

Tgt Ion:117 Resp: 157984

Ion Ratio Lower Upper

117 100

119 96.1 78.1 117.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

80000

60000

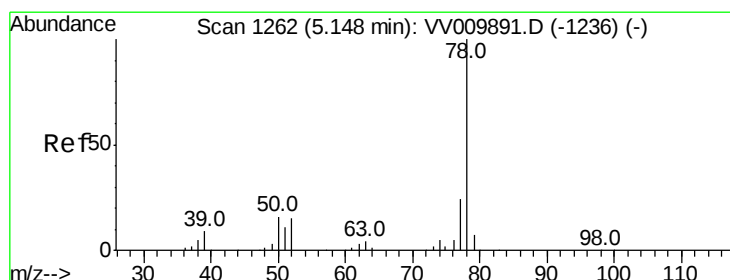
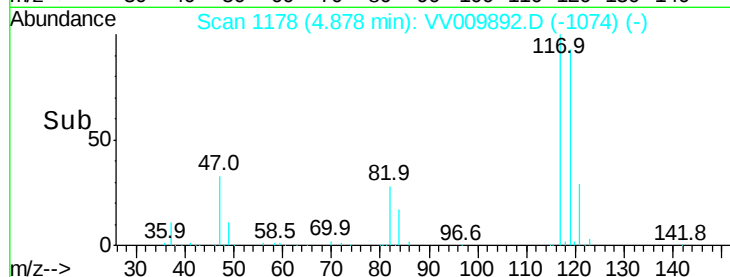
40000

20000

0

4.80 4.85 4.90 4.95

Time-->



#34

Benzene

Concen: 46.529 ug/L

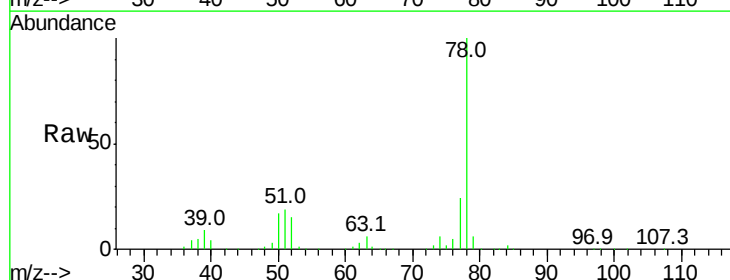
RT: 5.15 min Scan# 1262

Delta R.T. 0.00 min

Lab File: VV009892.D

Acq: 26 Mar 2019 13:16

Tgt Ion: 78 Resp: 479891



Abundance Ion 78.00 (77.70 to 78.70): VV0

250000

200000

150000

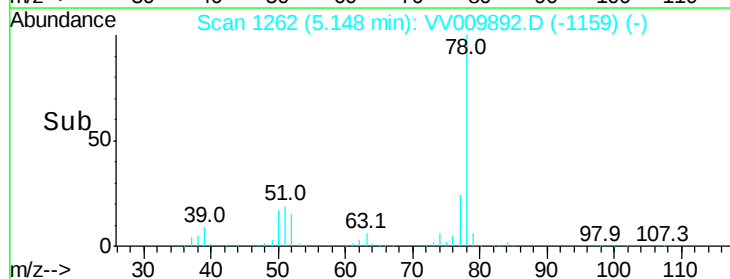
100000

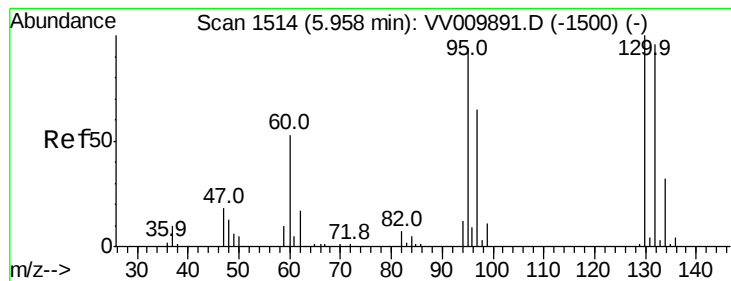
50000

0

5.00 5.10 5.20

Time-->





#35

Trichloroethene

Concen: 42.858 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VV009892.D

Acq: 26 Mar 2019 13:16

Instrument :

MSVOA_V

ClientSampleId :

VSTD05063

Tgt Ion: 95 Resp: 122356

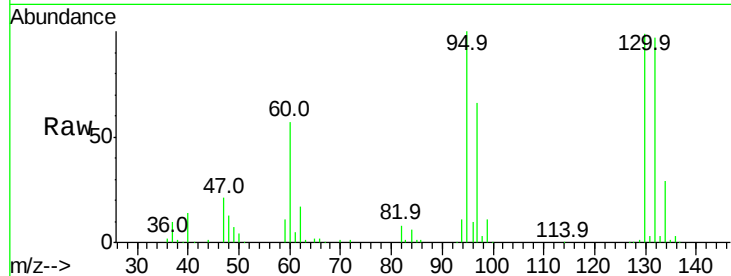
Ion Ratio Lower Upper

95 100

97 65.0 46.3 85.9

132 97.3 69.3 128.7

130 101.3 69.5 129.1

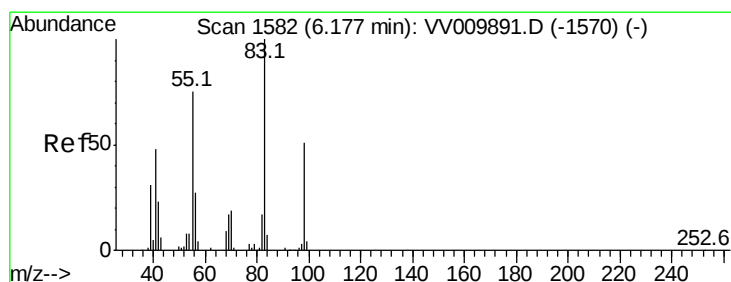
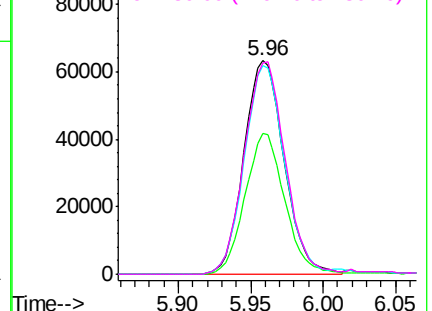
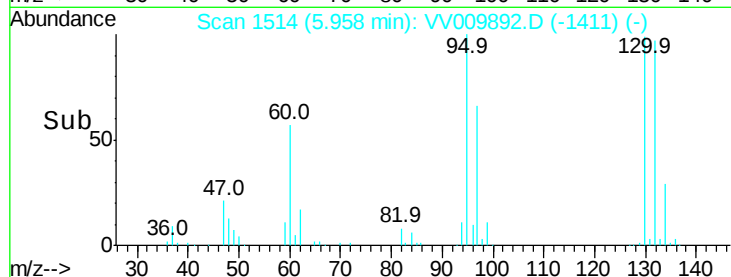


Abundance Ion 95.00 (94.70 to 95.70): VV009892.D (-1411) (-)

Ion 97.00 (96.70 to 97.70): VV009892.D (-1411) (-)

Ion 132.00 (131.70 to 132.70): VV009892.D (-1411) (-)

Ion 130.00 (129.70 to 130.70): VV009892.D (-1411) (-)



#36

Methylcyclohexane

Concen: 39.812 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. 0.00 min

Lab File: VV009892.D

Acq: 26 Mar 2019 13:16

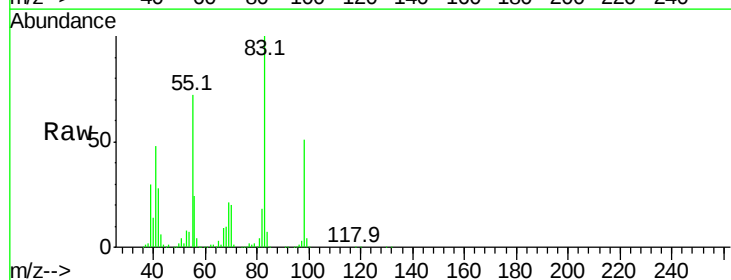
Tgt Ion: 83 Resp: 198455

Ion Ratio Lower Upper

83 100

55 71.8 57.3 85.9

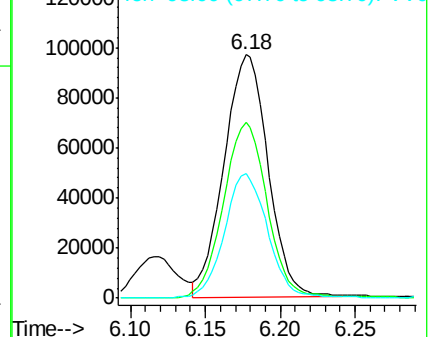
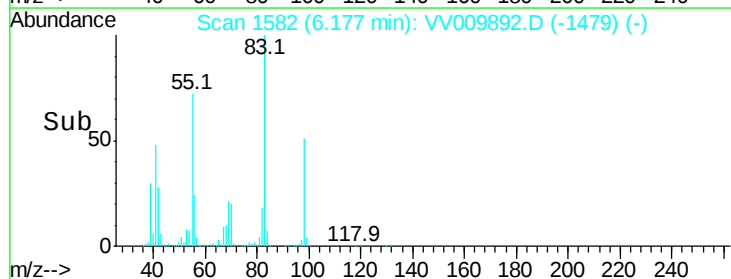
98 51.0 39.2 58.8

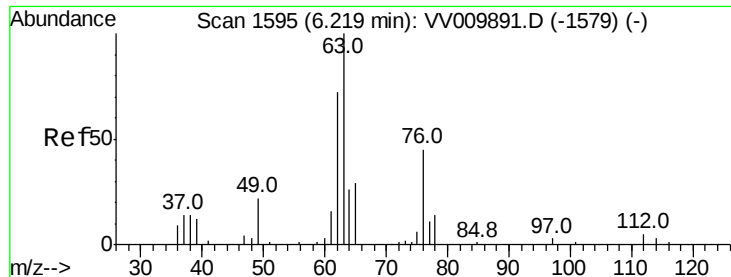


Abundance Ion 83.00 (82.70 to 83.70): VV009892.D (-1479) (-)

Ion 55.00 (54.70 to 55.70): VV009892.D (-1479) (-)

Ion 98.00 (97.70 to 98.70): VV009892.D (-1479) (-)





#40

1,2-Dichloropropane

Concen: 48.407 ug/L

RT: 6.22 min Scan# 1596

Delta R.T. 0.00 min

Lab File: VV009892.D

Acq: 26 Mar 2019 13:16

Instrument :

MSVOA_V

ClientSampleId :

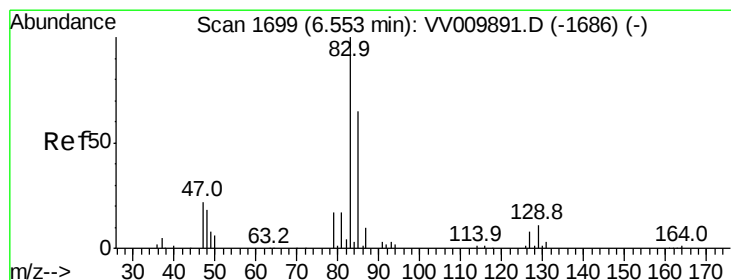
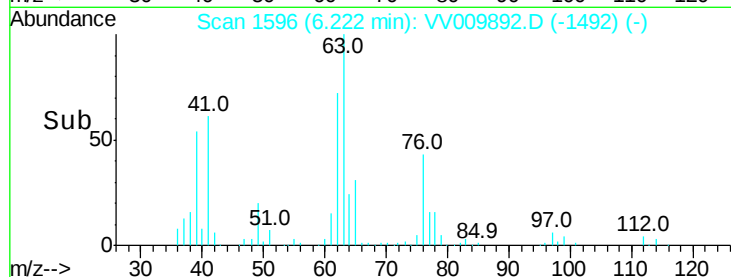
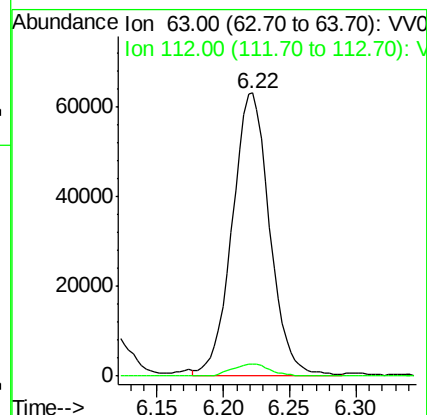
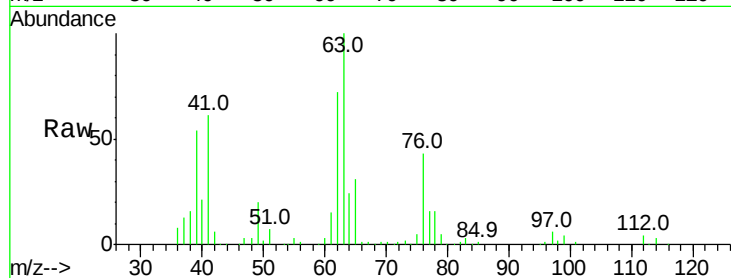
VSTD05063

Tgt Ion: 63 Resp: 124029

Ion Ratio Lower Upper

63 100

112 4.4 2.1 3.1#



#41

Bromodichloromethane

Concen: 44.179 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VV009892.D

Acq: 26 Mar 2019 13:16

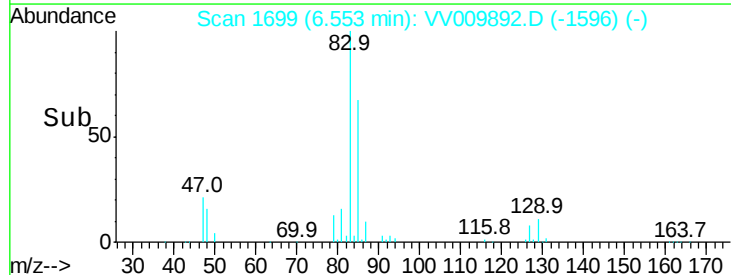
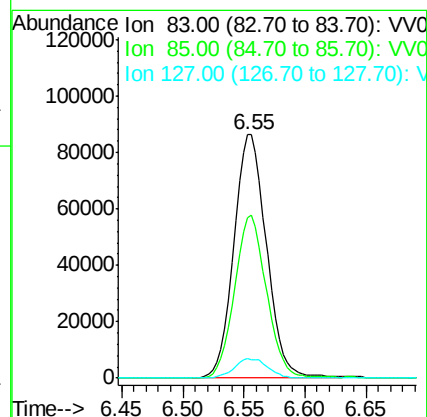
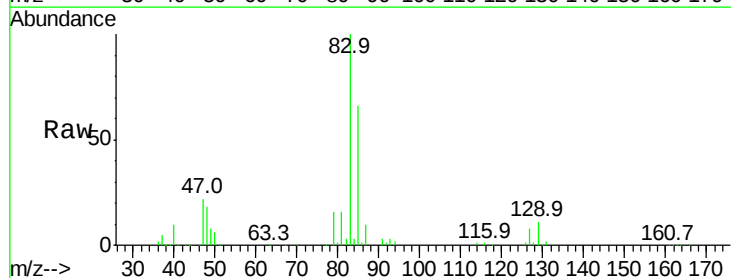
Tgt Ion: 83 Resp: 160976

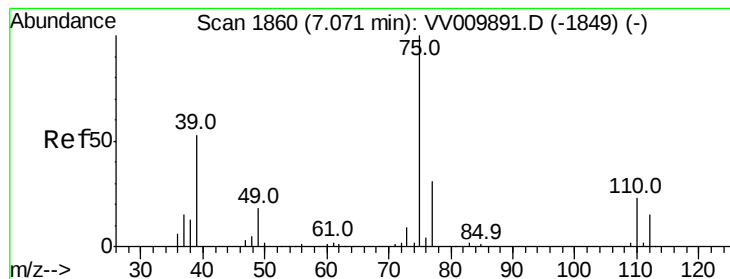
Ion Ratio Lower Upper

83 100

85 65.8 45.6 84.8

127 8.0 6.2 9.4



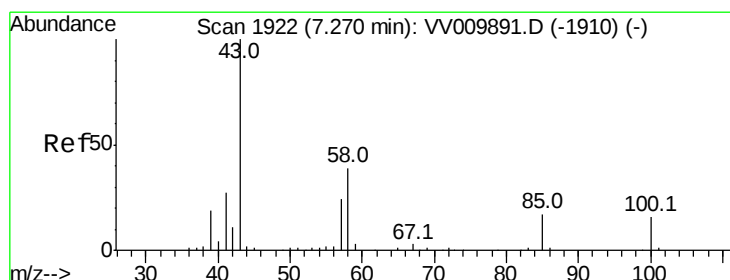
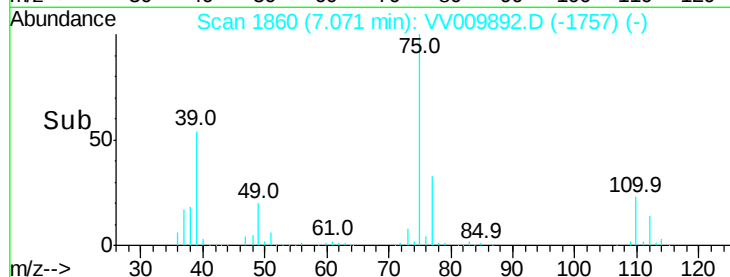
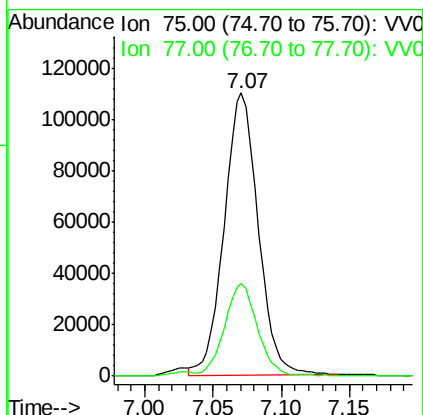
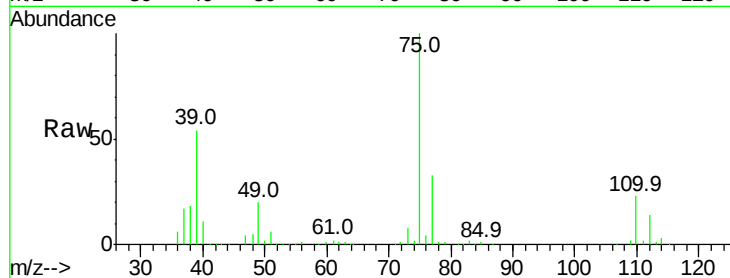


#42

cis-1,3-Dichloropropene
Concen: 46.770 ug/L
RT: 7.07 min Scan# 1860
Delta R.T. 0.00 min
Lab File: VV009892.D
Acq: 26 Mar 2019 13:16

Instrument :
MSVOA_V
ClientSampleId :
VSTD05063

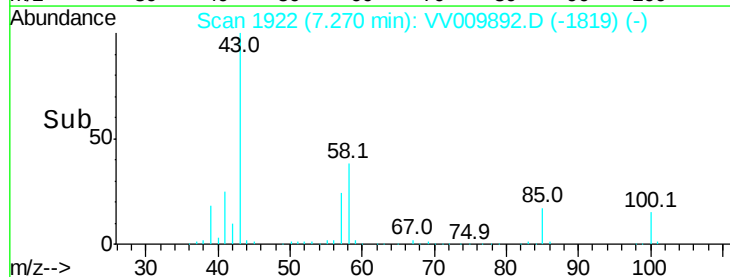
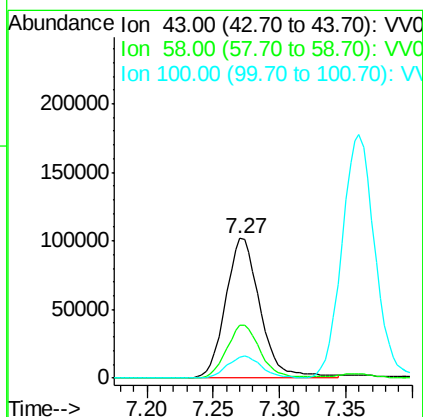
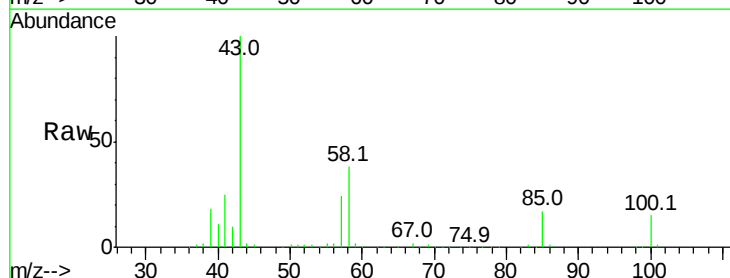
Tgt Ion: 75 Resp: 190410
Ion Ratio Lower Upper
75 100
77 32.8 21.8 40.6

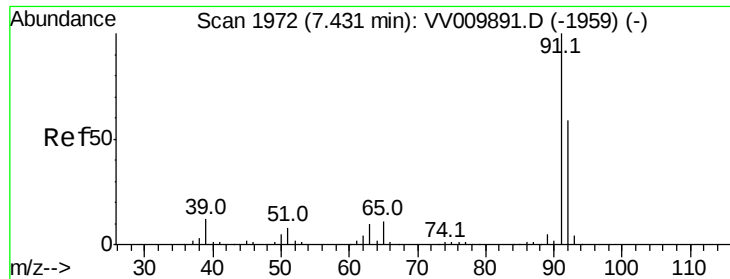


#43

4-Methyl-2-pentanone
Concen: 100.960 ug/L
RT: 7.27 min Scan# 1922
Delta R.T. 0.00 min
Lab File: VV009892.D
Acq: 26 Mar 2019 13:16

Tgt Ion: 43 Resp: 184945
Ion Ratio Lower Upper
43 100
58 36.5 29.4 44.2
100 15.5 12.2 18.4





#44

Toluene

Concen: 47.857 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV009892.D

Acq: 26 Mar 2019 13:16

Instrument :

MSVOA_V

ClientSampleId :

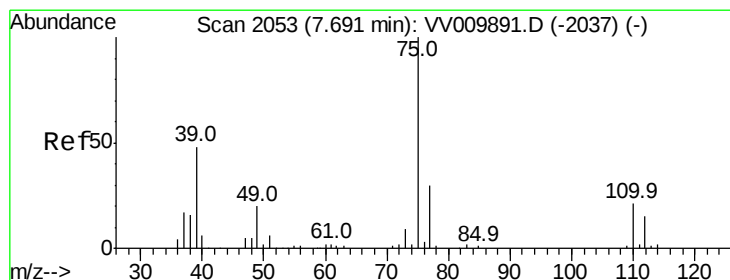
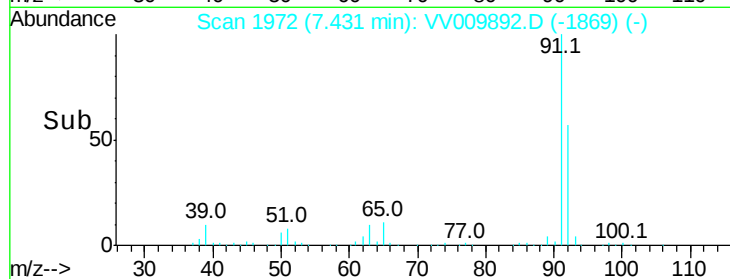
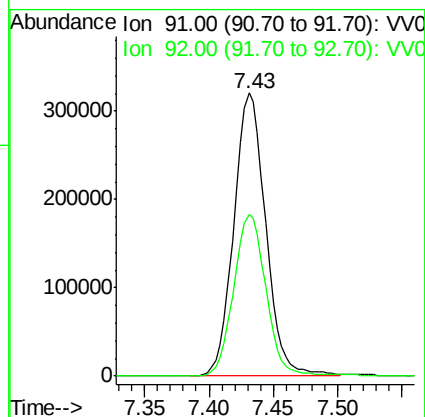
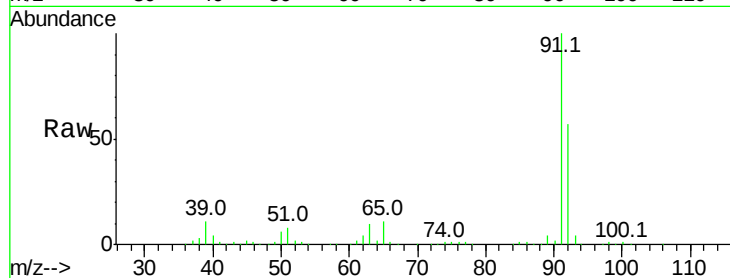
VSTD05063

Tgt Ion: 91 Resp: 552054

Ion Ratio Lower Upper

91 100

92 57.1 41.0 76.2



#45

trans-1,3-Dichloropropene

Concen: 45.259 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV009892.D

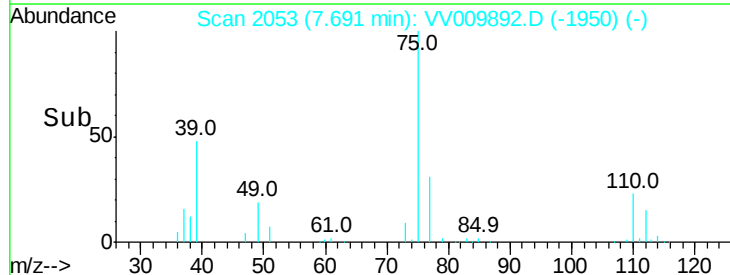
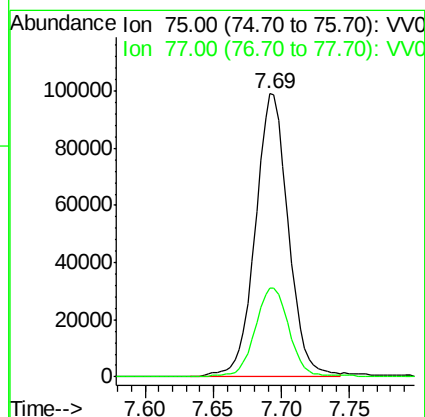
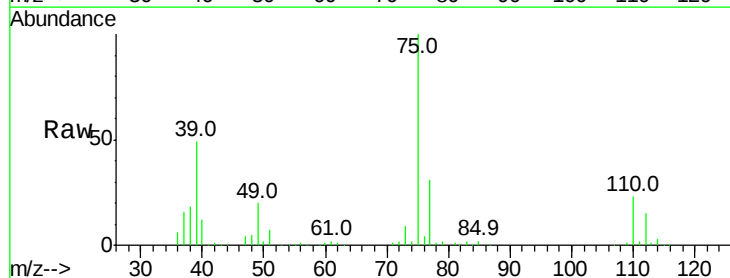
Acq: 26 Mar 2019 13:16

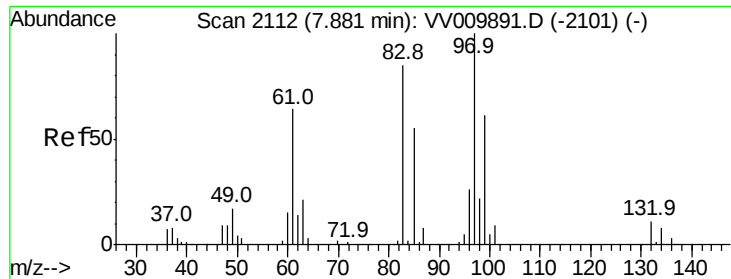
Tgt Ion: 75 Resp: 167045

Ion Ratio Lower Upper

75 100

77 31.5 20.7 38.5

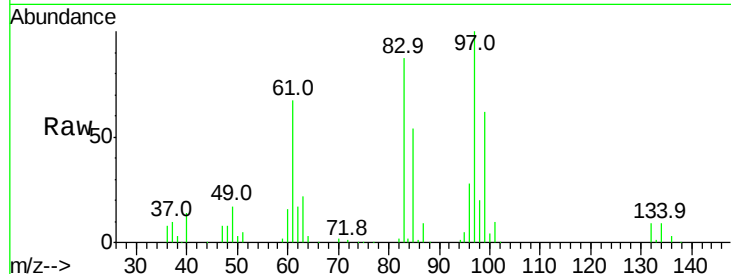




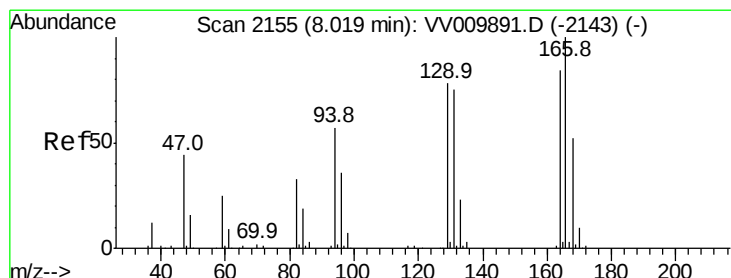
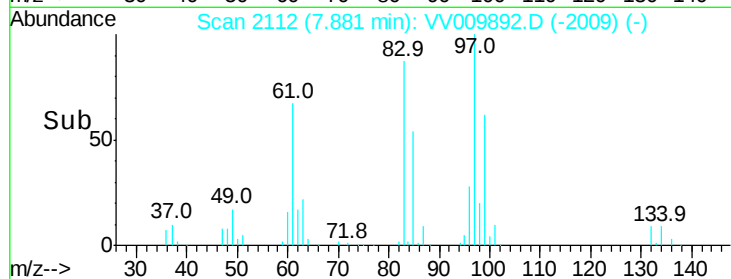
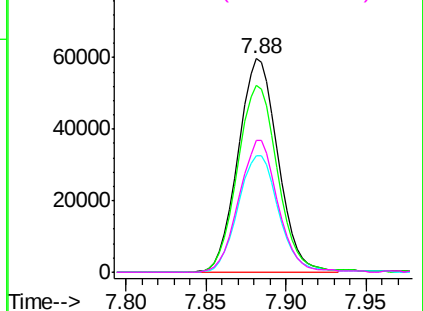
#46
 1,1,2-Trichloroethane
 Concen: 48.065 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VV009892.D
 Acq: 26 Mar 2019 13:16

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05063

Tgt Ion: 97 Resp: 101727
 Ion Ratio Lower Upper
 97 100
 83 87.3 59.6 110.8
 85 54.4 39.2 72.8
 99 61.5 42.6 79.2



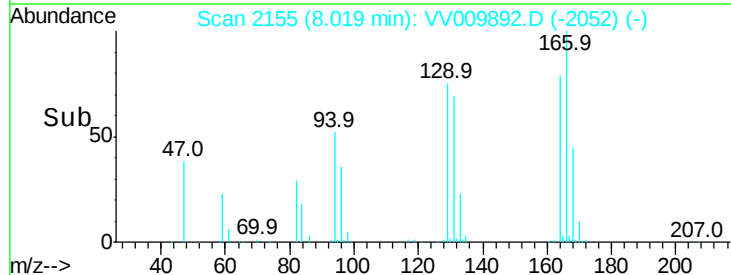
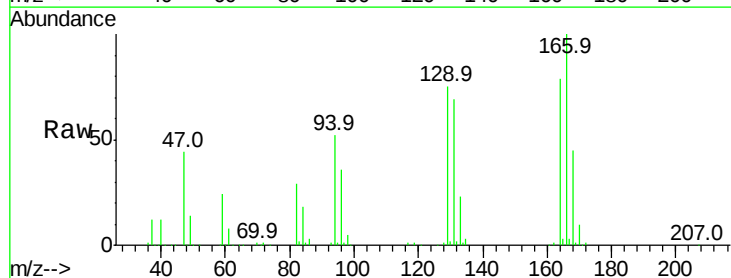
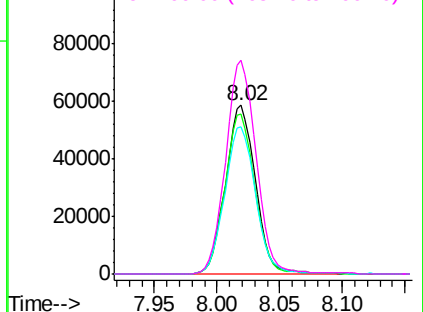
Abundance Ion 97.00 (96.70 to 97.70): VV0
 Ion 83.00 (82.70 to 83.70): VV0
 Ion 85.00 (84.70 to 85.70): VV0
 Ion 99.00 (98.70 to 99.70): VV0

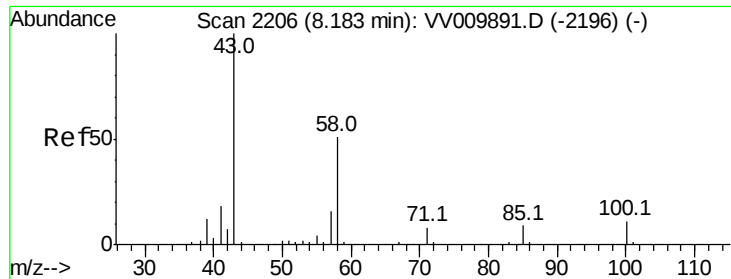


#47
 Tetrachloroethene
 Concen: 46.203 ug/L
 RT: 8.02 min Scan# 2155
 Delta R.T. 0.00 min
 Lab File: VV009892.D
 Acq: 26 Mar 2019 13:16

Tgt Ion: 164 Resp: 97704
 Ion Ratio Lower Upper
 164 100
 129 94.8 64.9 120.5
 131 87.5 62.0 115.2
 166 126.5 82.9 153.9

Abundance Ion 164.00 (163.70 to 164.70): V
 Ion 129.00 (128.70 to 129.70): V
 Ion 131.00 (130.70 to 131.70): V
 Ion 166.00 (165.70 to 166.70): V

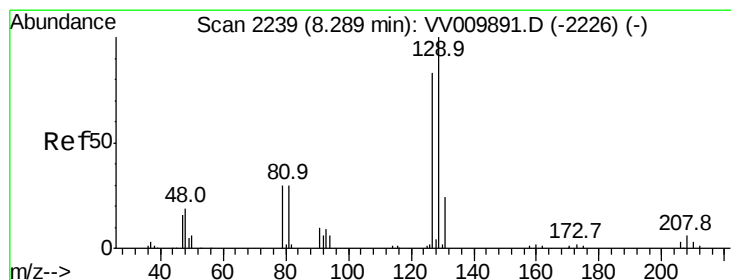
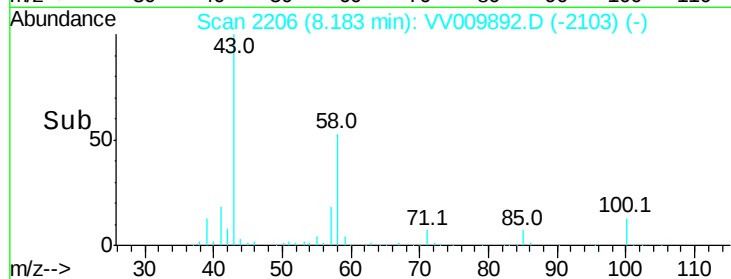
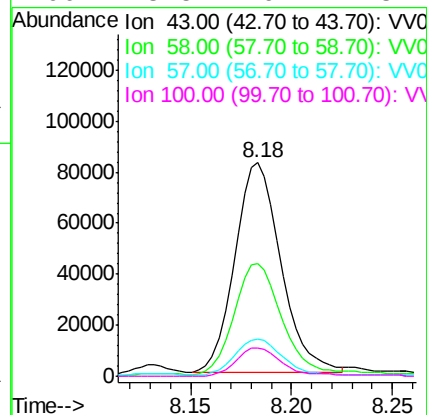
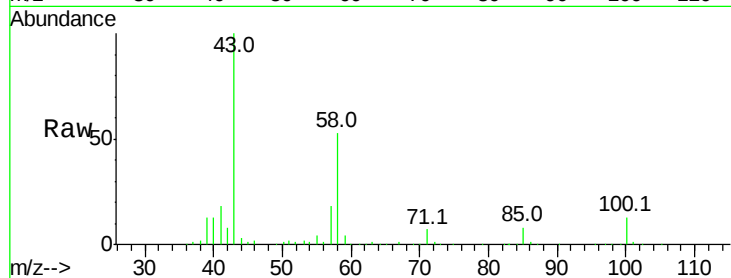




#49
2-Hexanone
Concen: 85.708 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VV009892.D
Acq: 26 Mar 2019 13:16

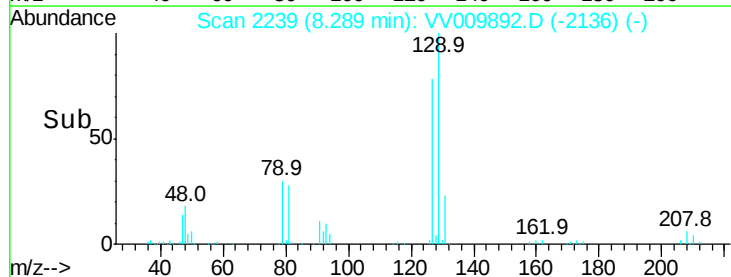
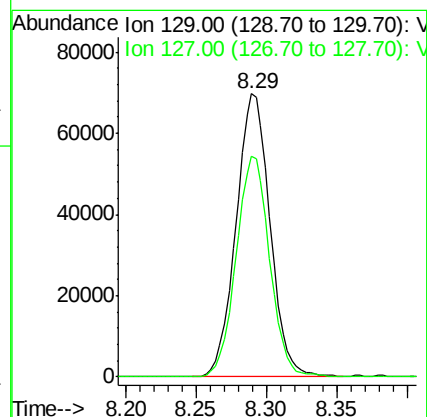
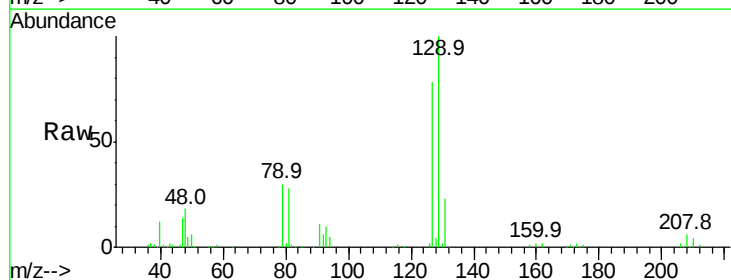
Instrument :
MSVOA_V
ClientSampleId :
VSTD05063

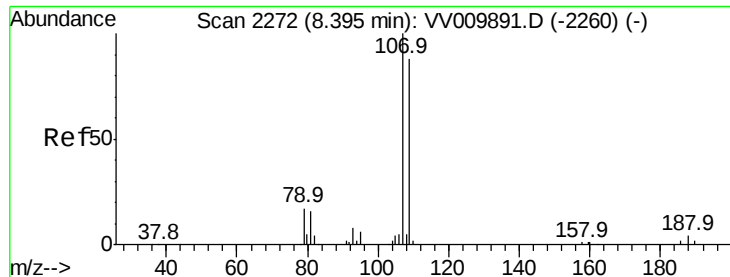
Tgt Ion: 43 Resp: 131095
Ion Ratio Lower Upper
43 100
58 56.8 42.0 63.0
57 18.1 12.9 19.3
100 13.5 9.1 13.7



#50
Dibromochloromethane
Concen: 44.520 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV009892.D
Acq: 26 Mar 2019 13:16

Tgt Ion: 129 Resp: 117858
Ion Ratio Lower Upper
129 100
127 77.8 57.9 107.5





#51

1,2-Dibromoethane

Concen: 48.802 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VV009892.D

Acq: 26 Mar 2019 13:16

Instrument :

MSVOA_V

ClientSampleId :

VSTD05063

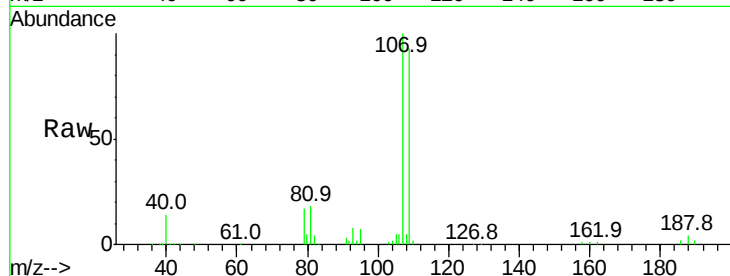
Tgt Ion:107 Resp: 103979

Ion Ratio Lower Upper

107 100

109 92.9 61.8 114.8

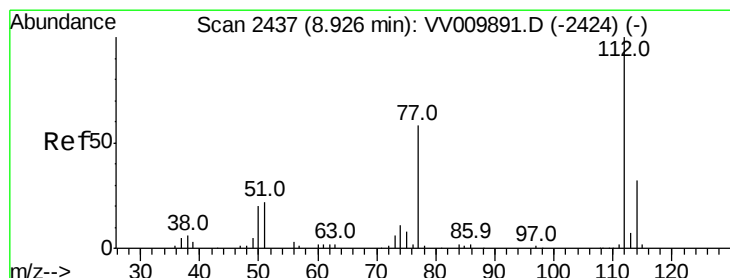
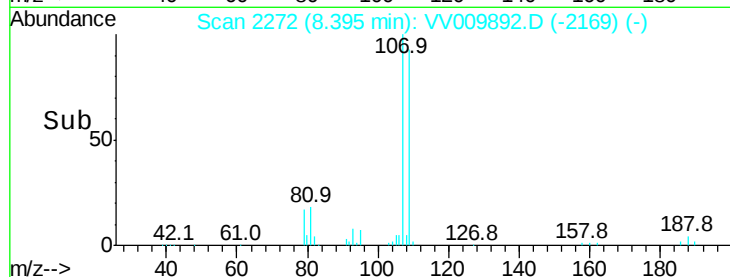
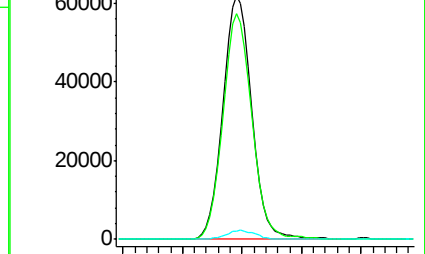
188 3.5 3.5 5.3



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#52

Chlorobenzene

Concen: 48.035 ug/L

RT: 8.93 min Scan# 2437

Delta R.T. 0.00 min

Lab File: VV009892.D

Acq: 26 Mar 2019 13:16

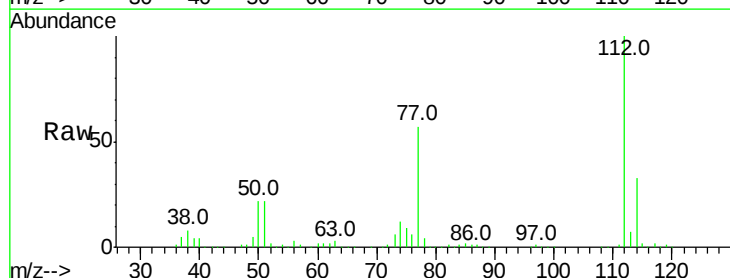
Tgt Ion:112 Resp: 358904

Ion Ratio Lower Upper

112 100

77 57.2 46.8 70.2

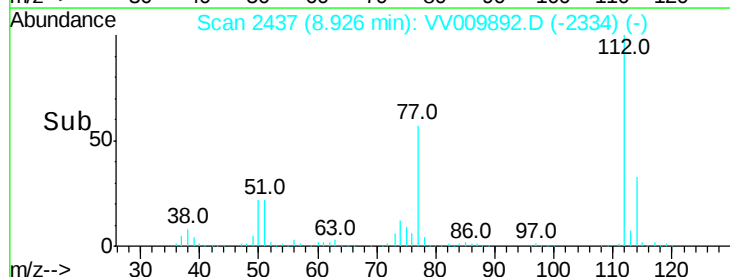
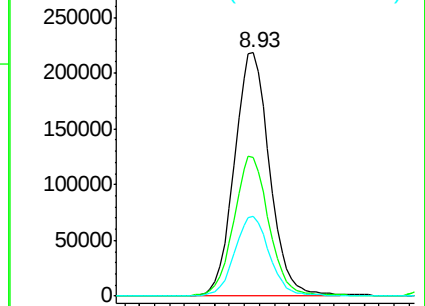
114 32.6 22.3 41.5

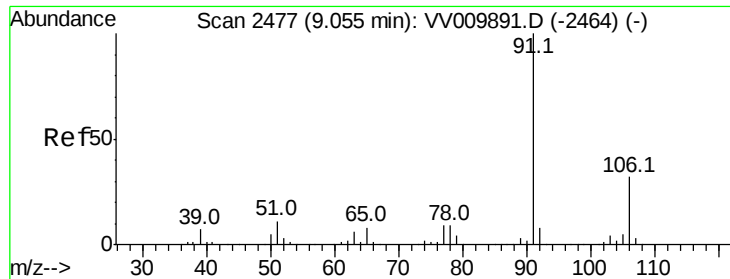


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VV0

Ion 114.00 (113.70 to 114.70): V

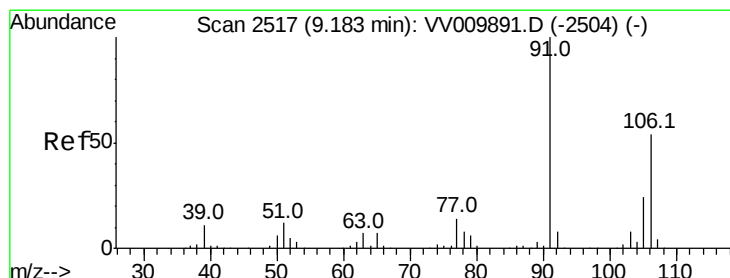
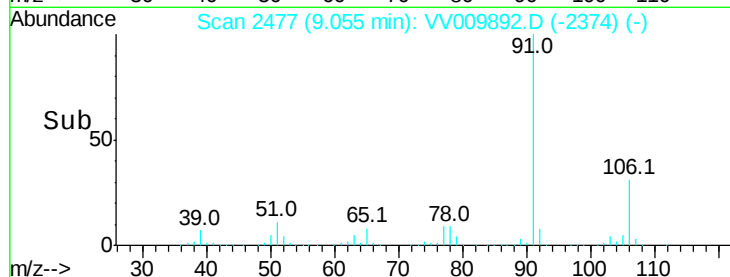
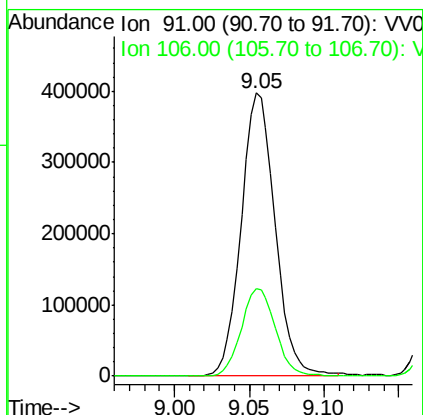
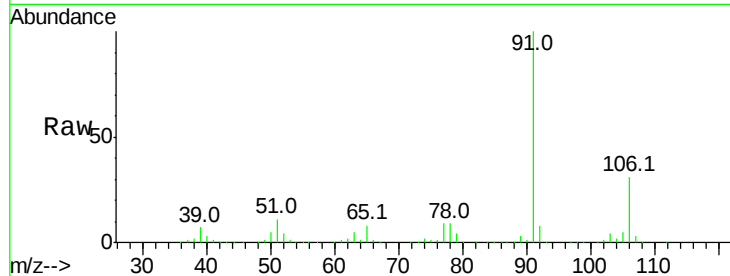




#53
Ethylbenzene
Concen: 47.606 ug/L
RT: 9.05 min Scan# 2477
Delta R.T. 0.00 min
Lab File: VV009892.D
Acq: 26 Mar 2019 13:16

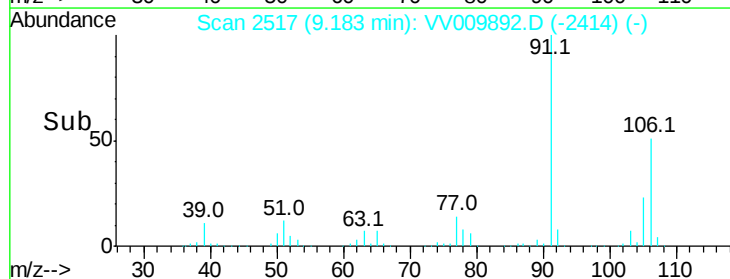
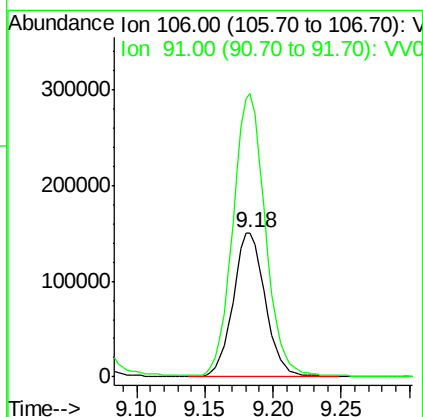
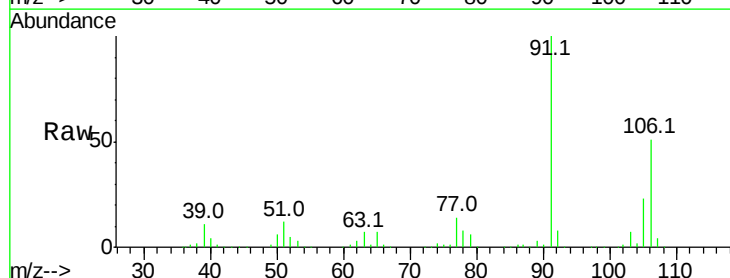
Instrument :
MSVOA_V
ClientSampleId :
VSTD05063

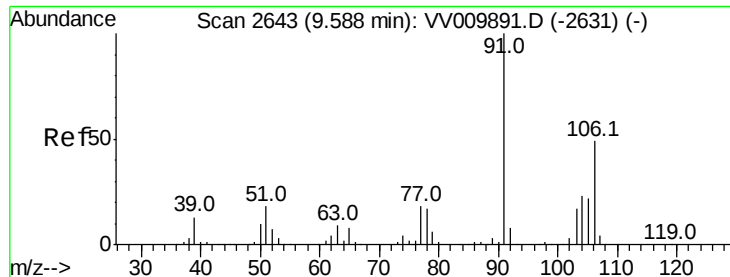
Tgt Ion: 91 Resp: 628087
Ion Ratio Lower Upper
91 100
106 31.0 22.3 41.3



#54
m,p-Xylene
Concen: 47.468 ug/L
RT: 9.18 min Scan# 2517
Delta R.T. 0.00 min
Lab File: VV009892.D
Acq: 26 Mar 2019 13:16

Tgt Ion: 106 Resp: 243957
Ion Ratio Lower Upper
106 100
91 195.9 130.0 241.4





#55

o-xylene

Concen: 50.870 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. 0.00 min

Lab File: VV009892.D

Acq: 26 Mar 2019 13:16

Instrument :

MSVOA_V

ClientSampleId :

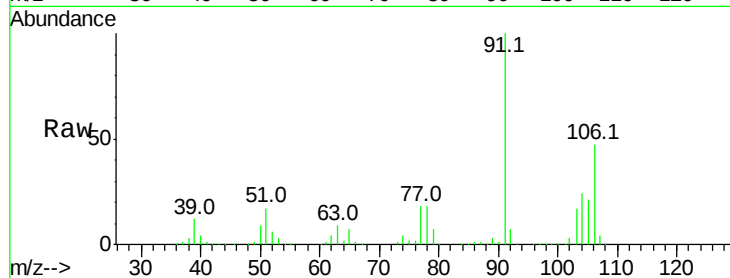
VSTD05063

Tgt Ion:106 Resp: 247873

Ion Ratio Lower Upper

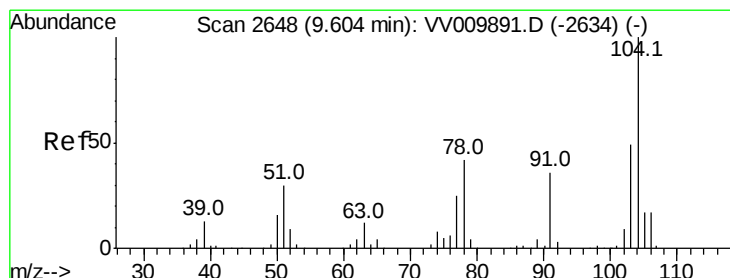
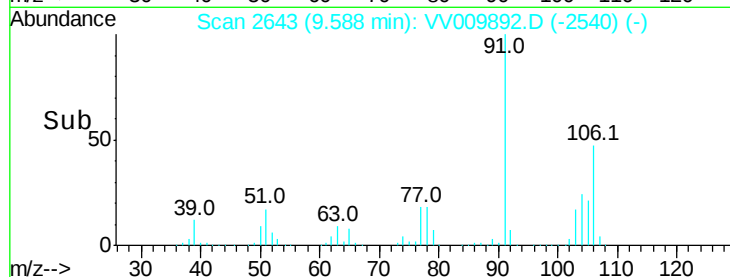
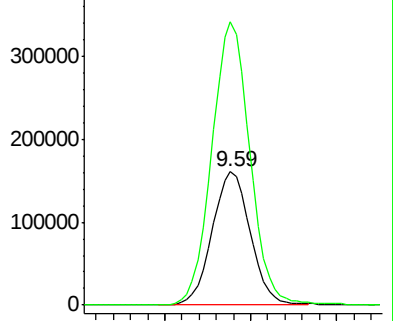
106 100

91 212.8 144.3 268.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 53.811 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. 0.00 min

Lab File: VV009892.D

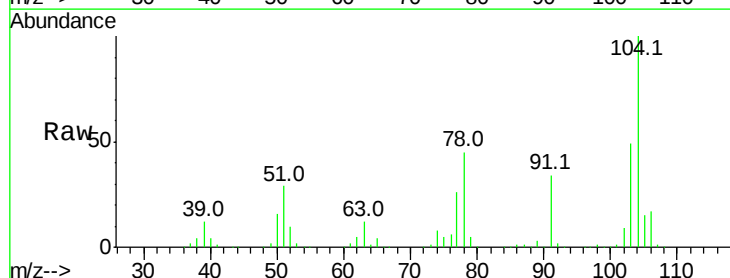
Acq: 26 Mar 2019 13:16

Tgt Ion:104 Resp: 439806

Ion Ratio Lower Upper

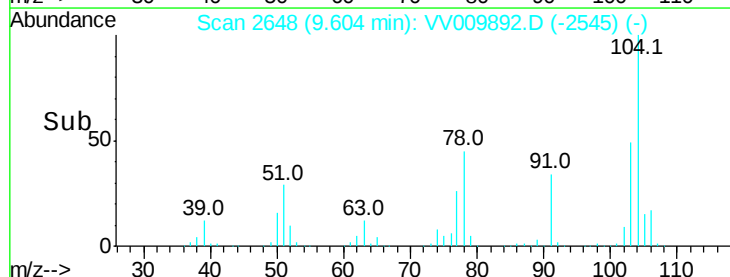
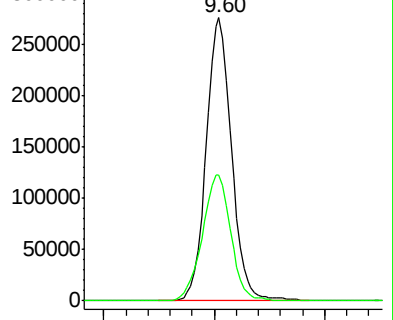
104 100

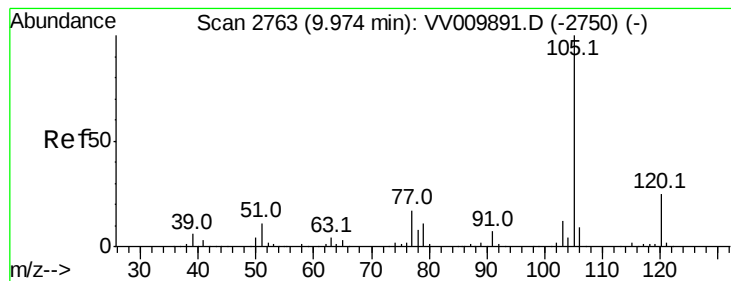
78 44.6 29.3 54.3



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 47.793 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV009892.D

Acq: 26 Mar 2019 13:16

Instrument :

MSVOA_V

ClientSampleId :

VSTD05063

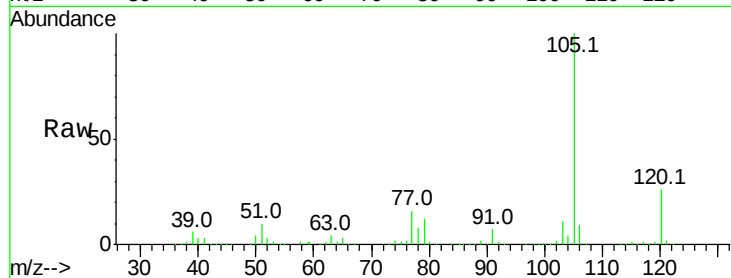
Tgt Ion: 105 Resp: 636248

Ion Ratio Lower Upper

105 100

120 26.3 20.8 31.2

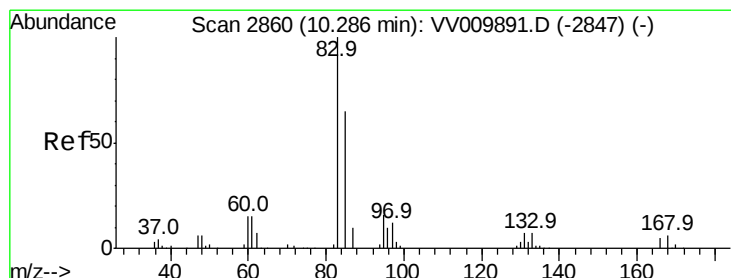
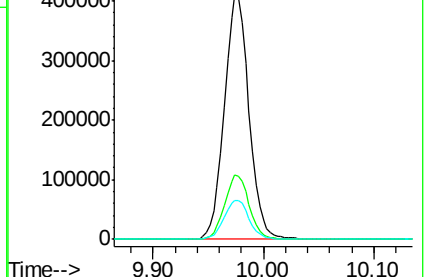
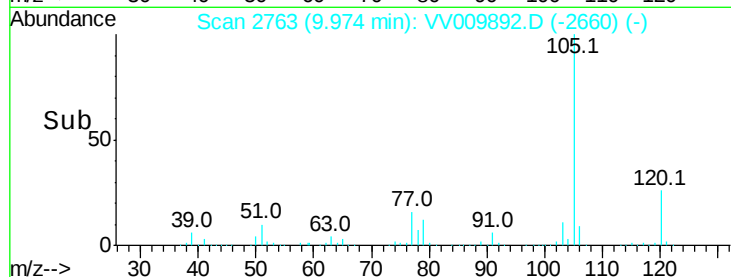
77 16.3 13.0 19.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 50.601 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV009892.D

Acq: 26 Mar 2019 13:16

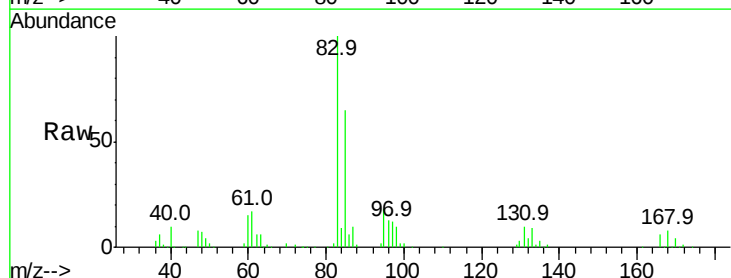
Tgt Ion: 83 Resp: 145629

Ion Ratio Lower Upper

83 100

85 65.3 45.8 85.0

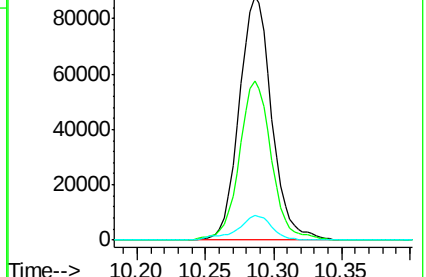
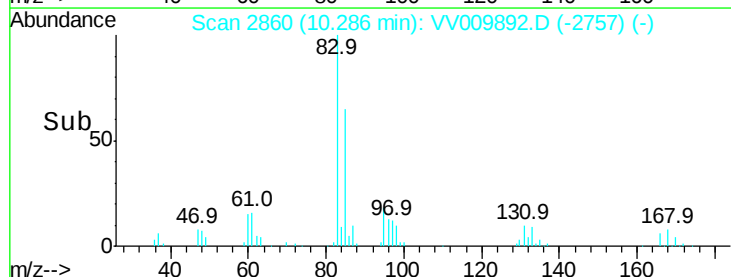
131 10.0 6.2 9.4#

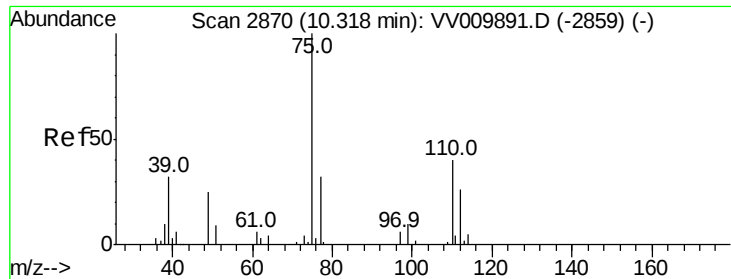


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 49.729 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VV009892.D

Acq: 26 Mar 2019 13:16

Instrument :

MSVOA_V

ClientSampleId :

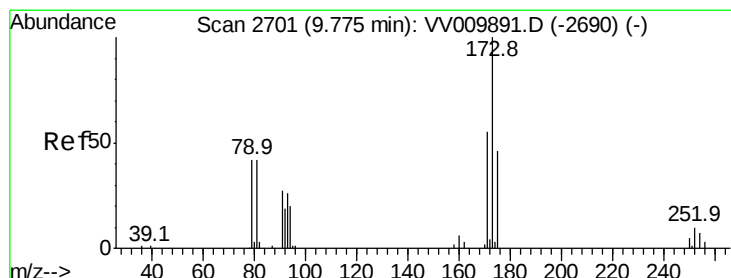
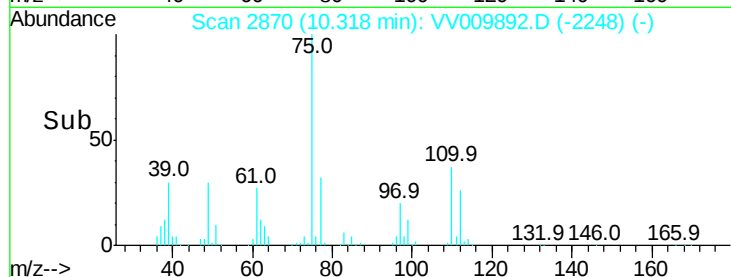
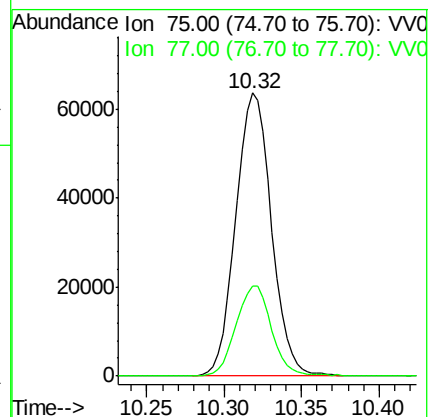
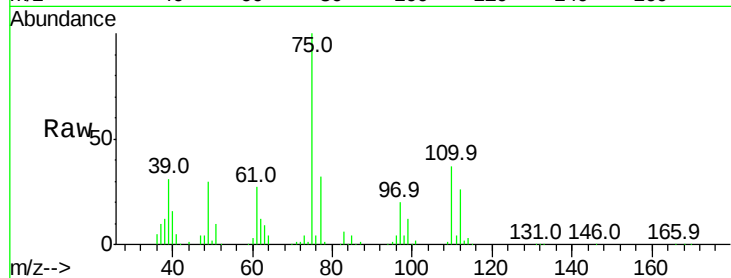
VSTD05063

Tgt Ion: 75 Resp: 101934

Ion Ratio Lower Upper

75 100

77 31.6 26.2 39.2



#62

Bromoform

Concen: 37.015 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VV009892.D

Acq: 26 Mar 2019 13:16

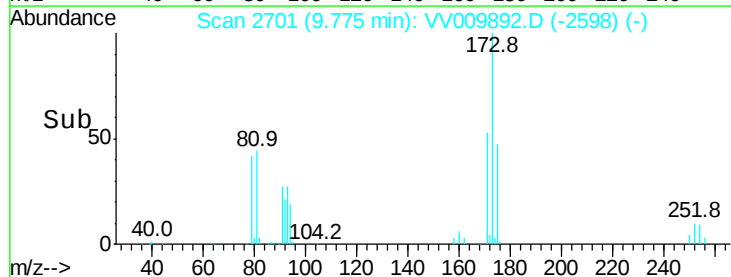
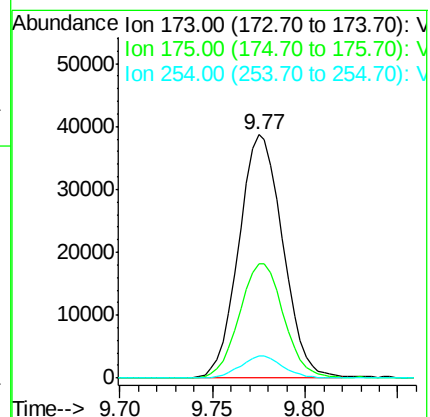
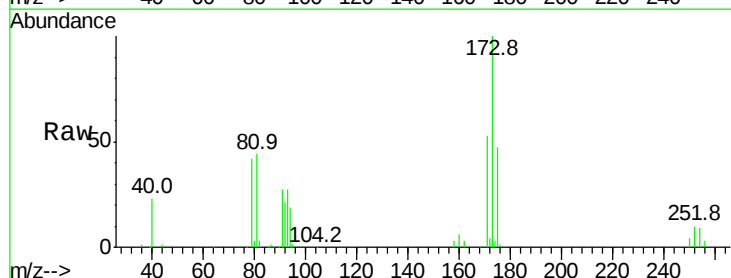
Tgt Ion: 173 Resp: 63703

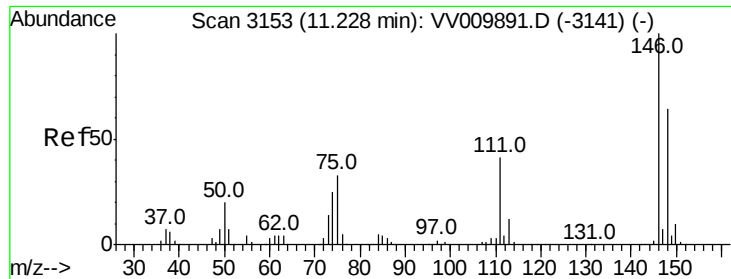
Ion Ratio Lower Upper

173 100

175 47.3 37.8 56.8

254 8.8 6.6 9.8





#63

1,3-Dichlorobenzene

Concen: 45.299 ug/L

RT: 11.23 min Scan# 3153

Delta R.T. 0.00 min

Lab File: VV009892.D

Acq: 26 Mar 2019 13:16

Instrument :

MSVOA_V

ClientSampleId :

VSTD05063

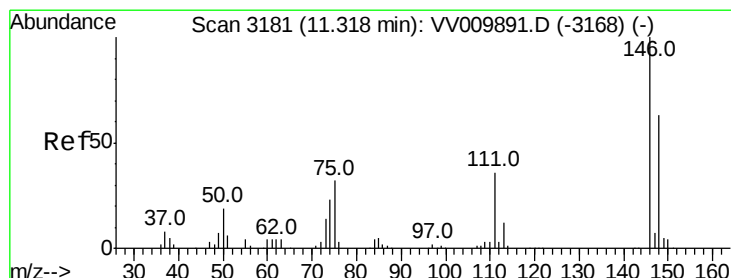
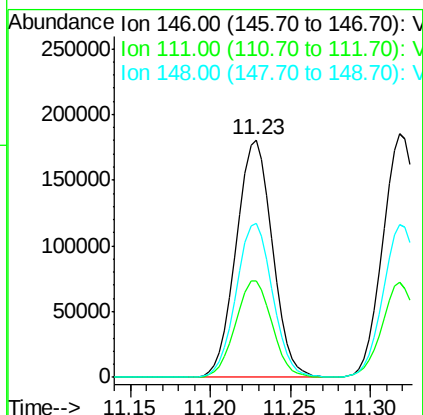
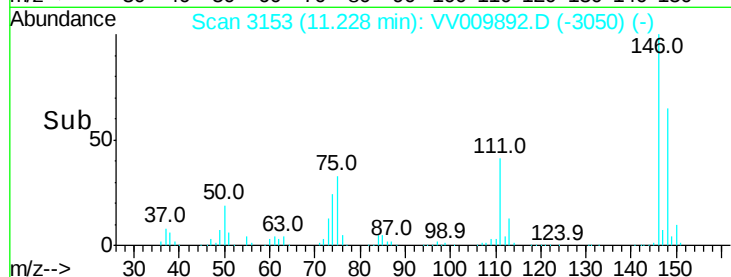
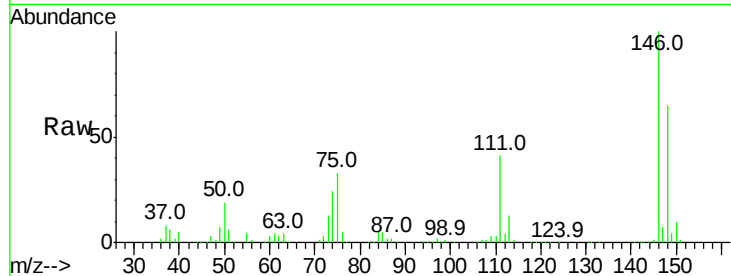
Tgt Ion:146 Resp: 278764

Ion Ratio Lower Upper

146 100

111 40.7 28.5 52.9

148 65.1 45.0 83.6



#64

1,4-Dichlorobenzene

Concen: 47.970 ug/L

RT: 11.32 min Scan# 3181

Delta R.T. 0.00 min

Lab File: VV009892.D

Acq: 26 Mar 2019 13:16

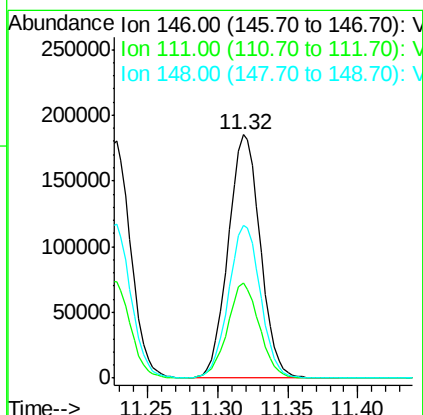
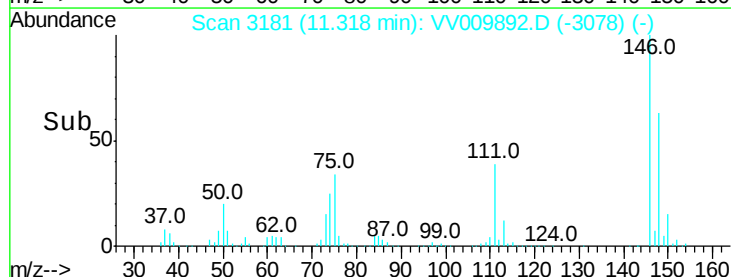
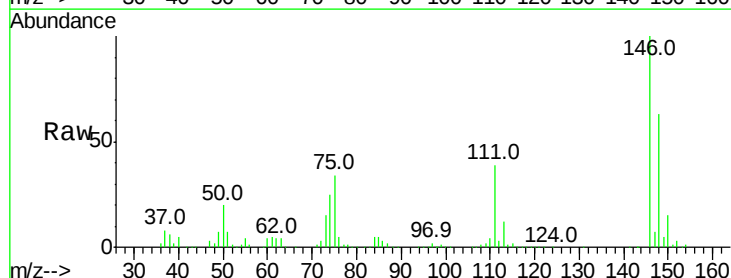
Tgt Ion:146 Resp: 294652

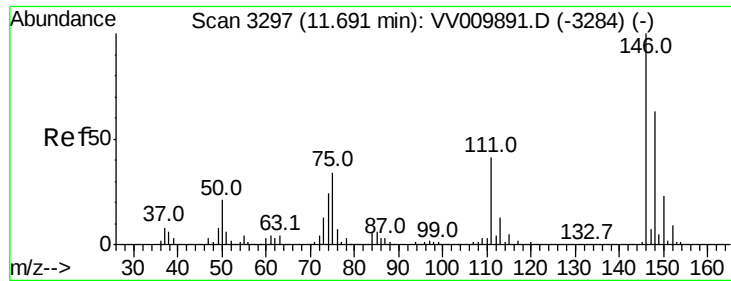
Ion Ratio Lower Upper

146 100

111 39.1 25.4 47.2

148 62.9 44.1 81.9





#65

1,2-Dichlorobenzene

Concen: 47.840 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV009892.D

Acq: 26 Mar 2019 13:16

Instrument :

MSVOA_V

ClientSampleId :

VSTD05063

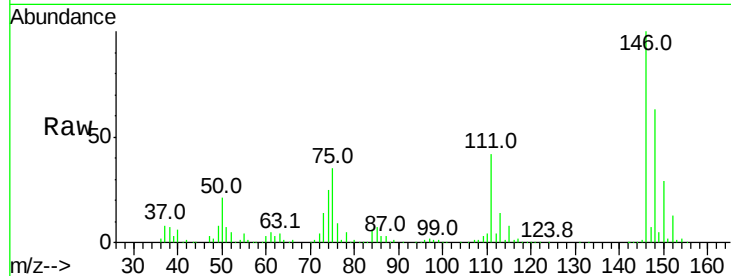
Tgt Ion:146 Resp: 276604

Ion Ratio Lower Upper

146 100

111 42.1 32.7 49.1

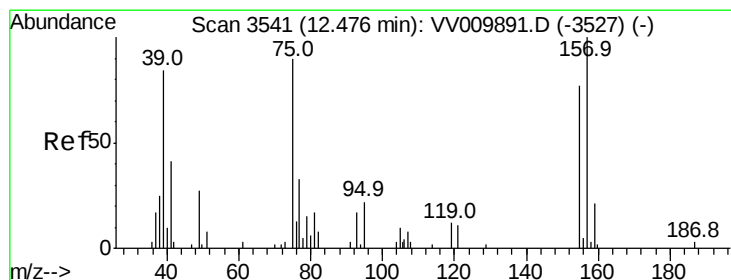
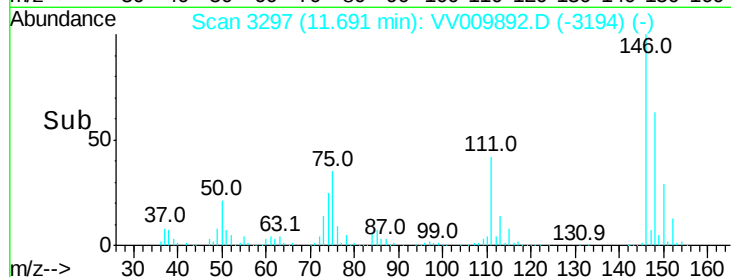
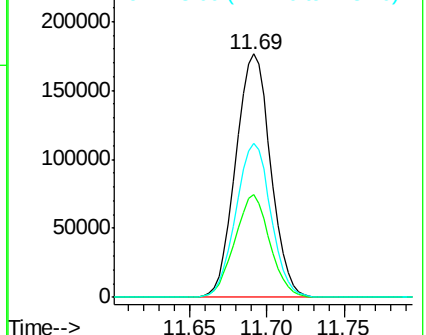
148 63.1 50.5 75.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 32.916 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. 0.00 min

Lab File: VV009892.D

Acq: 26 Mar 2019 13:16

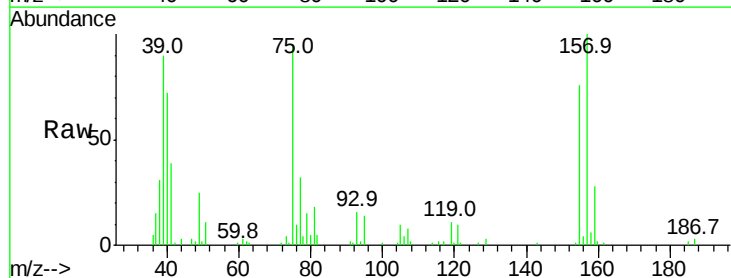
Tgt Ion: 75 Resp: 18791

Ion Ratio Lower Upper

75 100

157 105.7 89.2 133.8

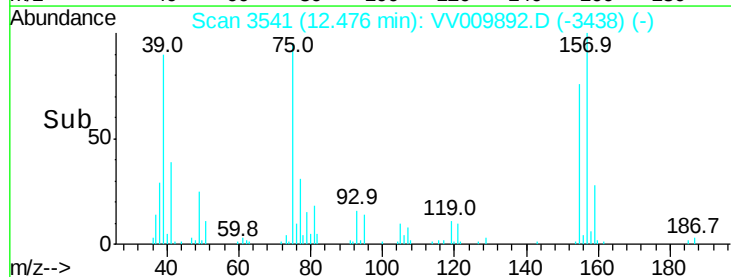
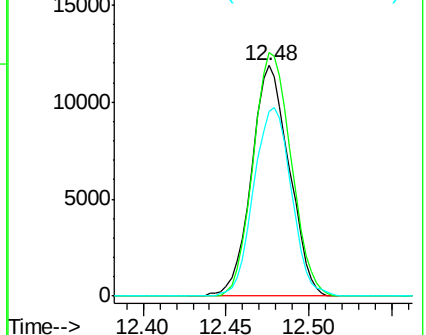
155 80.0 68.6 102.8

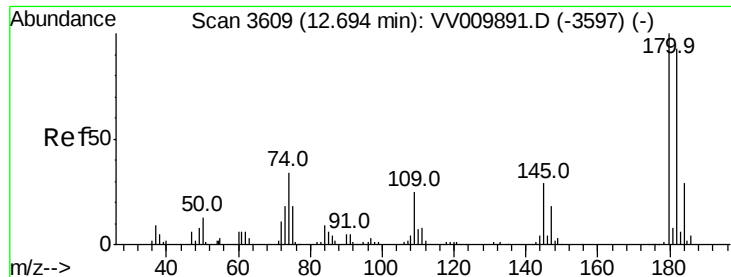


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

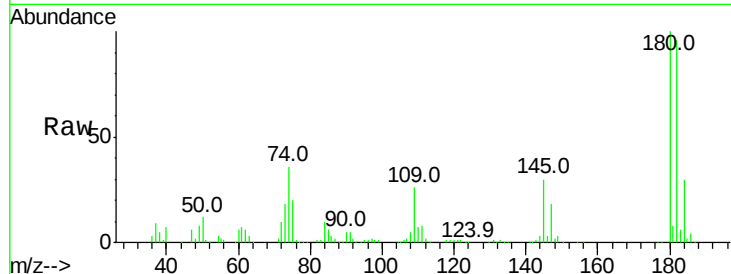




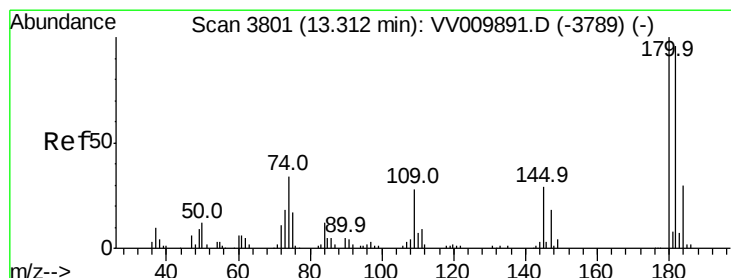
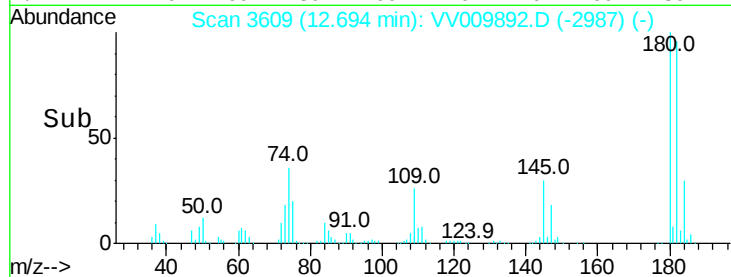
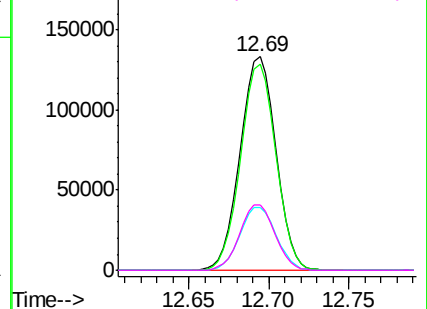
#67
 1,3,5-Trichlorobenzene
 Concen: 46.607 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. 0.00 min
 Lab File: VV009892.D
 Acq: 26 Mar 2019 13:16

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05063

Tgt Ion:	180	Resp:	202517
Ion	Ratio	Lower	Upper
180	100		
182	95.2	78.4	117.6
184	30.0	24.3	36.5
145	30.2	24.9	37.3

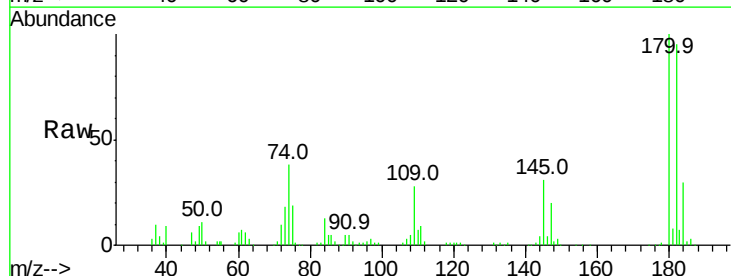


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

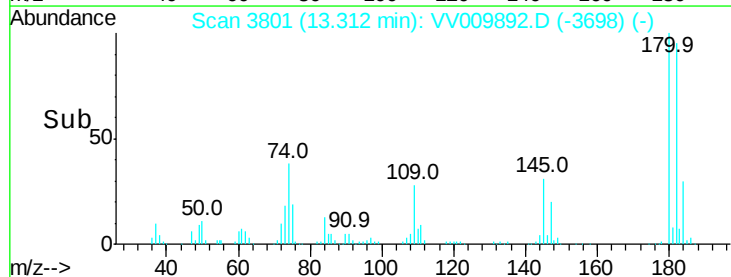
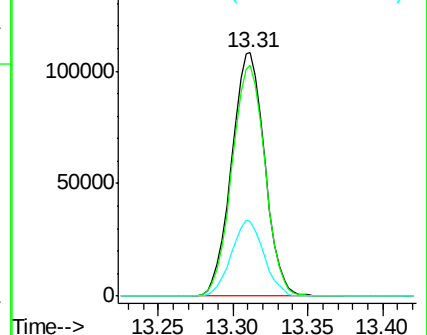


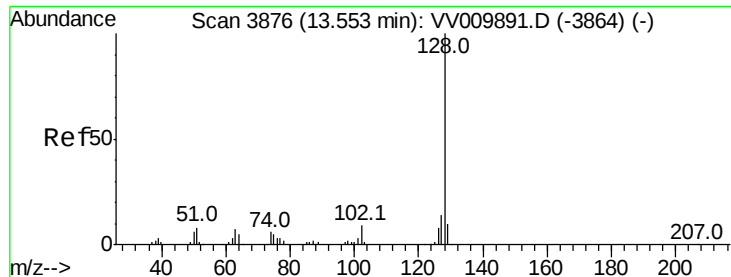
#68
 1,2,4-trichlorobenzene
 Concen: 49.390 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.00 min
 Lab File: VV009892.D
 Acq: 26 Mar 2019 13:16

Tgt Ion:	180	Resp:	166605
Ion	Ratio	Lower	Upper
180	100		
182	94.6	75.5	113.3
145	30.8	23.2	34.8



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 46.415 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. 0.00 min

Lab File: VV009892.D

Acq: 26 Mar 2019 13:16

Instrument :

MSVOA_V

ClientSampled :

VSTD05063

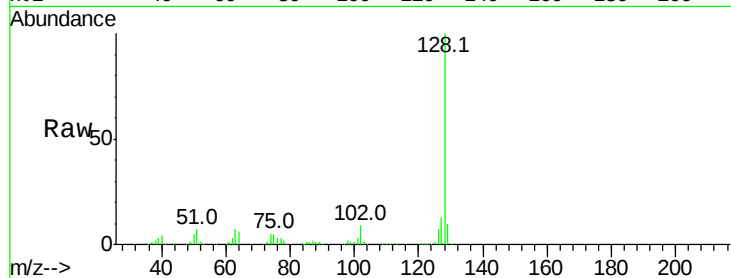
Tgt Ion:128 Resp: 317023

Ion Ratio Lower Upper

128 100

129 10.8 8.8 13.2

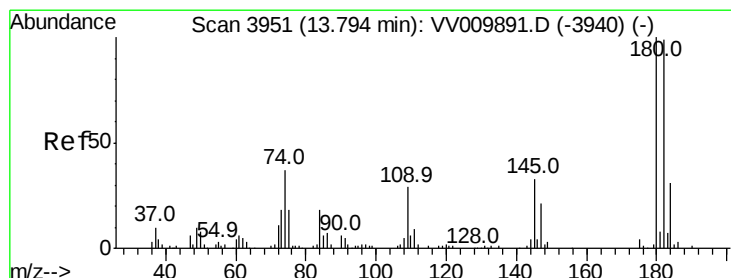
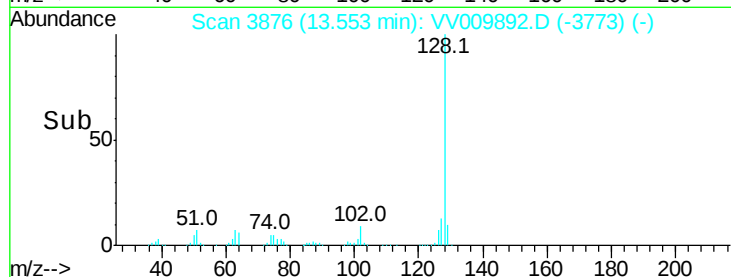
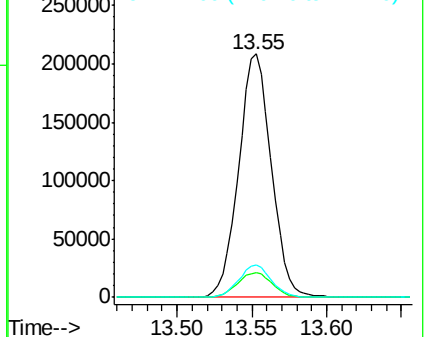
127 13.3 11.4 17.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 49.719 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV009892.D

Acq: 26 Mar 2019 13:16

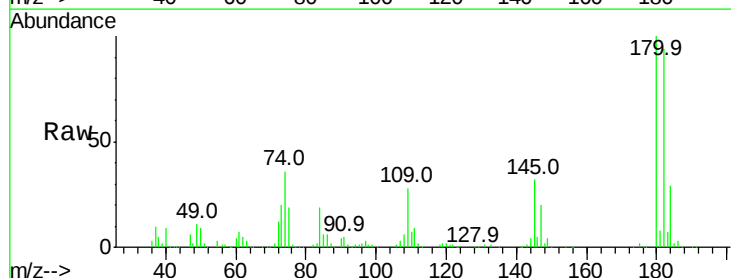
Tgt Ion:180 Resp: 155465

Ion Ratio Lower Upper

180 100

182 95.5 77.1 115.7

145 31.8 26.3 39.5



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

