

Data File : VV010956.D
Acq On : 20 May 2019 13:10
Operator : SY/MD
Sample : VSTD02567
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02567

Quant Time: May 20 13:50:31 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052019S.M
Quant Title : VOC Analysis
QLast Update : Mon May 20 12:33:23 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	139532	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	144153	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	71535	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	38705	21.77	ug/L	0.00
7) Chloroethane-d5	1.57	69	26890	23.21	ug/L	0.00
10) 1,1-Dichloroethene-d2	2.12	63	74847	22.25	ug/L	0.00
20) 2-Butanone-d5	3.94	46	27313	48.84	ug/L	0.00
24) Chloroform-d	4.40	84	88313	21.92	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	51791	22.61	ug/L	0.00
29) Benzene-d6	5.10	84	193152	24.21	ug/L	0.00
33) 1,2-Dichloropropane-d6	6.12	67	59186	23.25	ug/L	0.00
37) Toluene-d8	7.36	98	183513	23.93	ug/L	0.00
38) trans-1,3-Dichloropropene-	7.66	79	25191	22.69	ug/L	0.00
39) 2-Hexanone-d5	8.13	63	21603	44.79	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	10.26	84	57297	24.27	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	11.67	152	68598	22.96	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	50028	32.317	ug/L	99
3) Chloromethane	1.25	50	45730	24.666	ug/L	99
5) Vinyl chloride	1.32	62	47057	23.575	ug/L	96
6) Bromomethane	1.51	94	19042	41.102	ug/L	98
8) Chloroethane	1.59	64	24015	23.263	ug/L	94
9) Trichlorofluoromethane	1.76	101	76973	26.939	ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	43972	25.514	ug/L	96
12) 1,1-Dichloroethene	2.13	96	37646	23.413	ug/L	98
13) Acetone	2.19	43	24170	42.428	ug/L	93
14) Carbon disulfide	2.31	76	102275	21.117	ug/L	100
15) Methyl Acetate	2.46	43	26439	22.283	ug/L	93
16) Methylene chloride	2.53	84	57076	25.347	ug/L	92
17) Methyl tert-butyl Ether	2.80	73	131990	25.140	ug/L	99
18) trans-1,2-Dichloroethene	2.78	96	52221	27.264	ug/L	95
19) 1,1-Dichloroethane	3.22	63	96529	26.031	ug/L	98
21) 2-Butanone	4.02	43	36702	49.912	ug/L	98
22) cis-1,2-Dichloroethene	3.96	96	58031	25.890	ug/L	95
23) Bromochloromethane	4.29	128	26848	25.714	ug/L	93
25) Chloroform	4.42	83	110037	27.355	ug/L	99
27) 1,2-Dichloroethane	5.18	62	65624	23.382	ug/L #	94
30) Cyclohexane	4.72	56	76229	27.505	ug/L	97
31) 1,1,1-Trichloroethane	4.65	97	83979	26.823	ug/L	98
32) Carbon tetrachloride	4.87	117	75756	28.354	ug/L	100
34) Benzene	5.14	78	214900	25.578	ug/L	100
35) Trichloroethene	5.96	95	58124	26.692	ug/L	97
36) Methylcyclohexane	6.17	83	83162	27.443	ug/L	99
40) 1,2-Dichloropropane	6.22	63	53777	23.500	ug/L	99
41) Bromodichloromethane	6.55	83	74386	25.349	ug/L	98
42) cis-1,3-Dichloropropene	7.07	75	83841	25.113	ug/L	96
43) 4-Methyl-2-pentanone	7.27	43	75980	47.014	ug/L	94

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Quant Title : VOC Analysis
QLast Update : Mon May 20 12:33:23 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	7.43	91	242928	26.011	ug/L	98
45) trans-1,3-Dichloropropene	7.69	75	71112	25.203	ug/L	99
46) 1,1,2-Trichloroethane	7.88	97	47487	25.766	ug/L	94
47) Tetrachloroethene	8.02	164	46395	28.834	ug/L	99
49) 2-Hexanone	8.18	43	54235	45.439	ug/L	94
50) Dibromochloromethane	8.29	129	55972	27.303	ug/L	99
51) 1,2-Dibromoethane	8.40	107	44894	25.857	ug/L	98
52) Chlorobenzene	8.93	112	161132	25.333	ug/L	97
53) Ethylbenzene	9.05	91	265025	25.902	ug/L	99
54) m,p-Xylene	9.18	106	105040	26.056	ug/L	98
55) o-xylene	9.59	106	101114	25.529	ug/L	99
56) Styrene	9.60	104	175958	25.909	ug/L	98
57) Isopropylbenzene	9.97	105	263888	26.617	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	60187	24.728	ug/L	96
59) 1,2,3-Trichloropropane	10.32	75	43632	24.741	ug/L	98
62) Bromoform	9.77	173	29773	26.664	ug/L	96
63) 1,3-Dichlorobenzene	11.23	146	123362	24.959	ug/L	99
64) 1,4-Dichlorobenzene	11.32	146	128008	25.001	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	121813	24.703	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.48	75	9157	24.796	ug/L	90
67) 1,3,5-Trichlorobenzene	12.69	180	90632	25.161	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	71904	24.722	ug/L	99
69) Naphthalene	13.55	128	144497	23.716	ug/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	70693	25.537	ug/L	100

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

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Instrument :
MSVOA_V
ClientSampleId :
VSTD02567

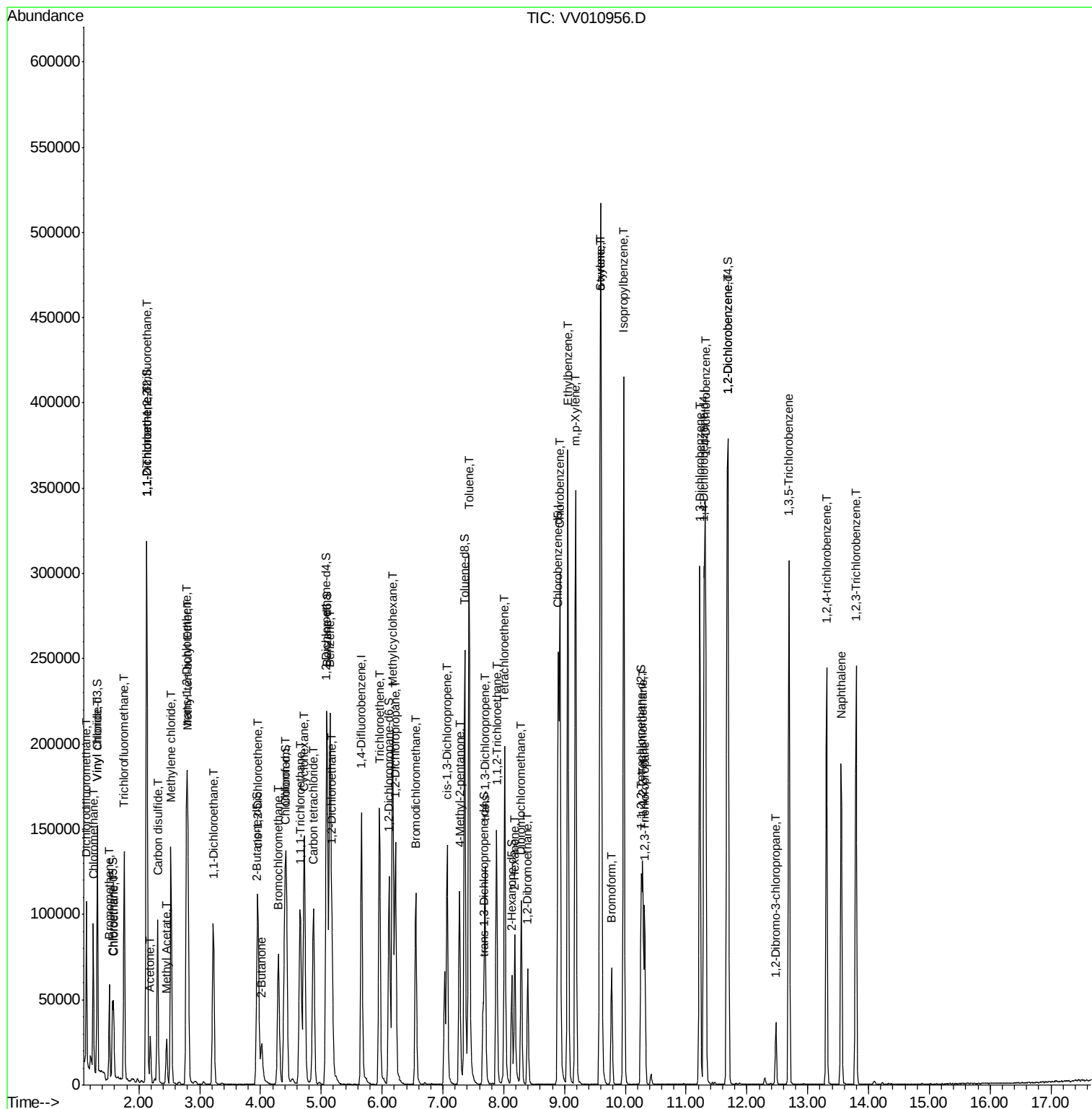
Quant Time: May 20 13:50:31 2019

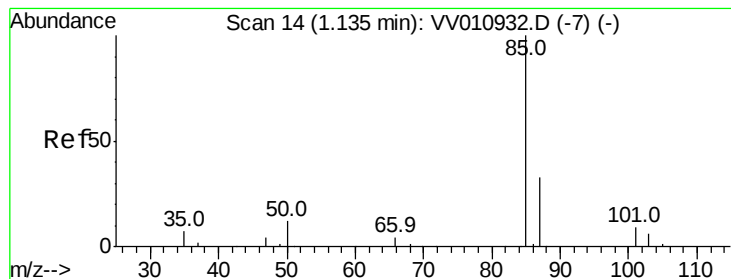
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\S0M2VLM052019S.M

Quant Title : VOC Analysis

QLast Update : Mon May 20 12:33:23 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 32.317 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV010956.D

Acq: 20 May 2019 13:10

Instrument :

MSVOA_V

ClientSampleId :

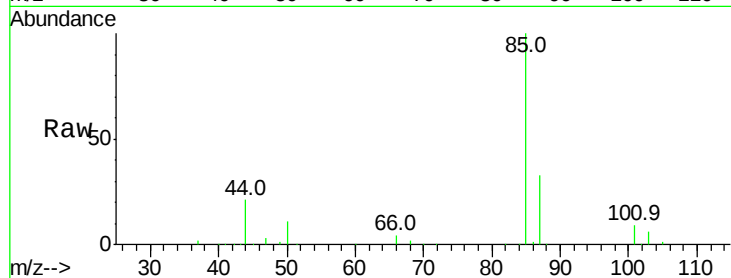
VSTD02567

Tgt Ion: 85 Resp: 50028

Ion Ratio Lower Upper

85 100

87 33.2 23.0 42.6



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0

1.14

60000

50000

40000

30000

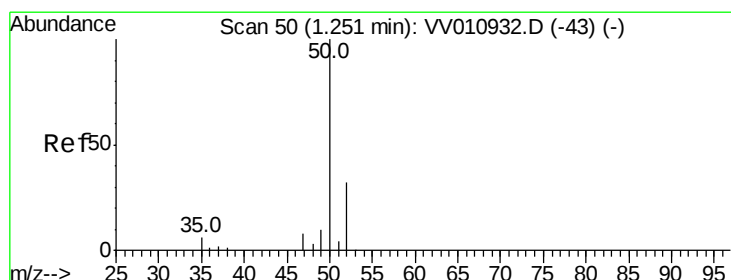
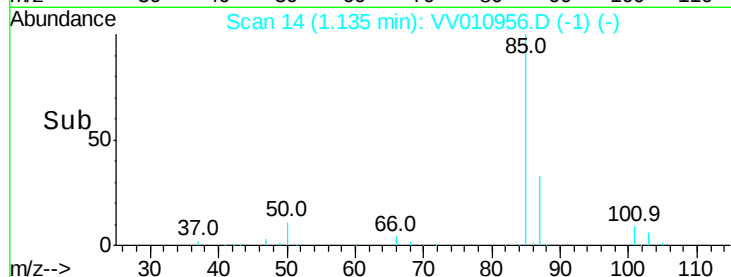
20000

10000

0

Time-->

1.10 1.15



#3

Chloromethane

Concen: 24.666 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV010956.D

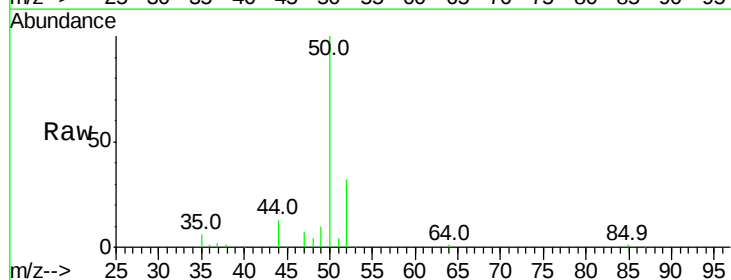
Acq: 20 May 2019 13:10

Tgt Ion: 50 Resp: 45730

Ion Ratio Lower Upper

50 100

52 32.5 22.5 41.7



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0

1.25

60000

50000

40000

30000

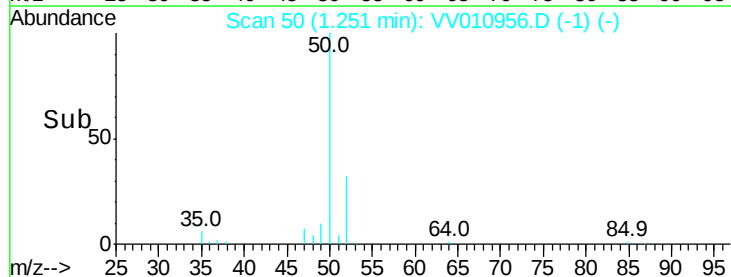
20000

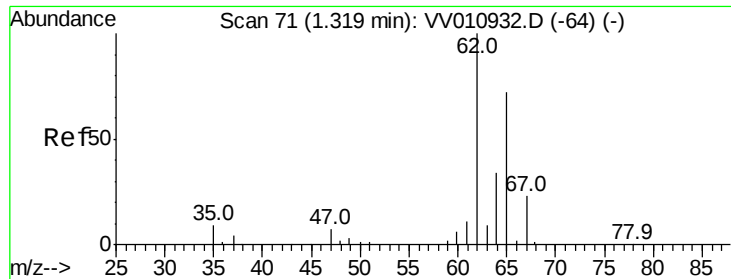
10000

0

Time-->

1.22 1.24 1.26 1.28





#5

Vinyl chloride

Concen: 23.575 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV010956.D

Acq: 20 May 2019 13:10

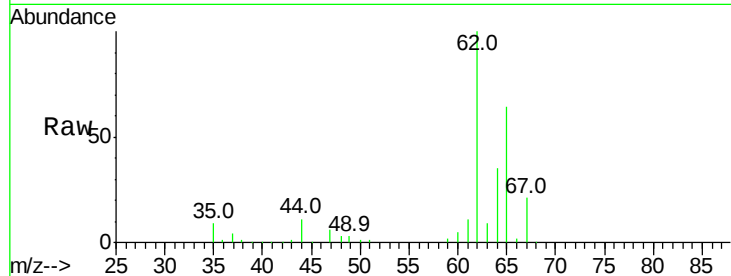
Instrument :
MSVOA_V
ClientSampleId :
VSTD02567

Tgt Ion: 62 Resp: 47057

Ion Ratio Lower Upper

62 100

64 35.0 26.1 48.5

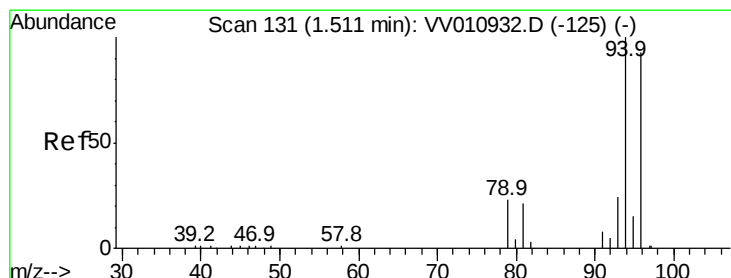
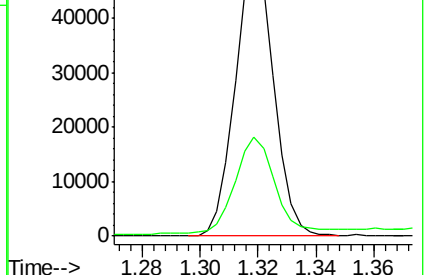
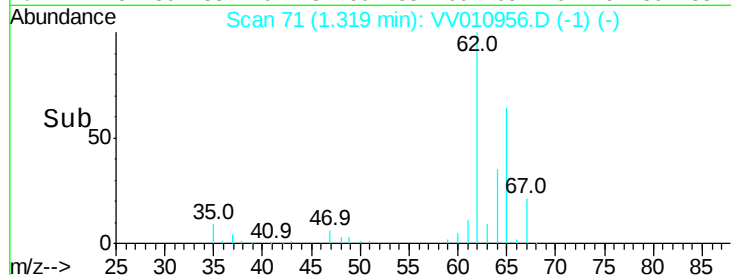


Abundance Ion 62.00 (61.70 to 62.70): VV010932.D (-64) (-)

Ion 64.00 (63.70 to 64.70): VV010932.D (-64) (-)

1.32

Time-->



#6

Bromomethane

Concen: 41.102 ug/L

RT: 1.51 min Scan# 131

Delta R.T. 0.00 min

Lab File: VV010956.D

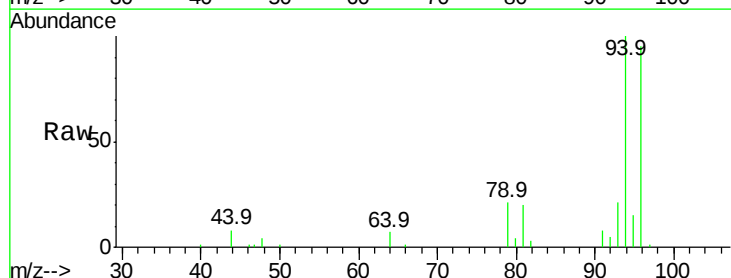
Acq: 20 May 2019 13:10

Tgt Ion: 94 Resp: 19042

Ion Ratio Lower Upper

94 100

96 93.5 9.6 181.6

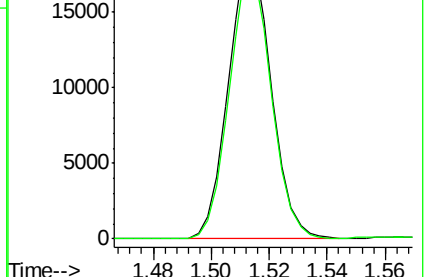
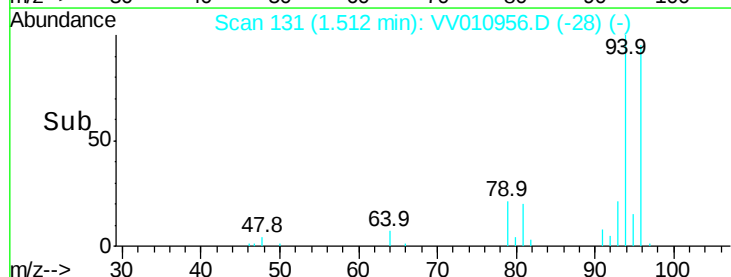


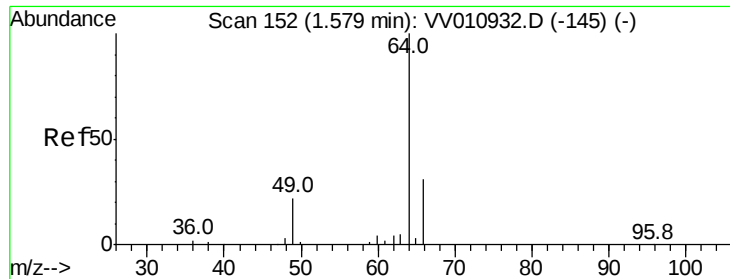
Abundance Ion 94.00 (93.70 to 94.70): VV010932.D (-125) (-)

Ion 96.00 (95.70 to 96.70): VV010932.D (-125) (-)

1.51

Time-->





#8

Chloroethane

Concen: 23.263 ug/L

RT: 1.59 min Scan# 154

Delta R.T. 0.01 min

Lab File: VV010956.D

Acq: 20 May 2019 13:10

Instrument :

MSVOA_V

ClientSampleId :

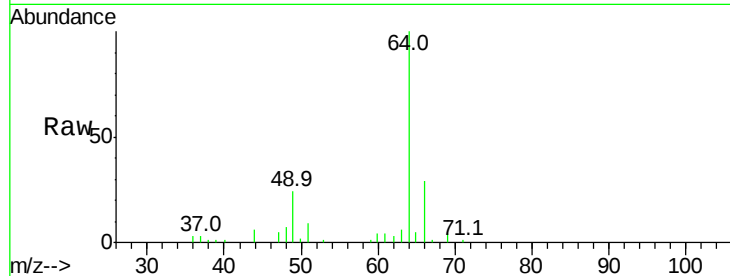
VSTD02567

Tgt Ion: 64 Resp: 24015

Ion Ratio Lower Upper

64 100

66 29.1 22.5 41.9



Abundance Ion 64.00 (63.70 to 64.70): VV010932.D (-145) (-)

Ion 66.00 (65.70 to 66.70): VV010932.D (-145) (-)

1.59

25000

20000

15000

10000

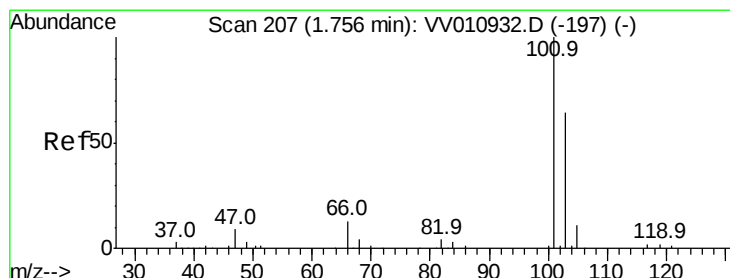
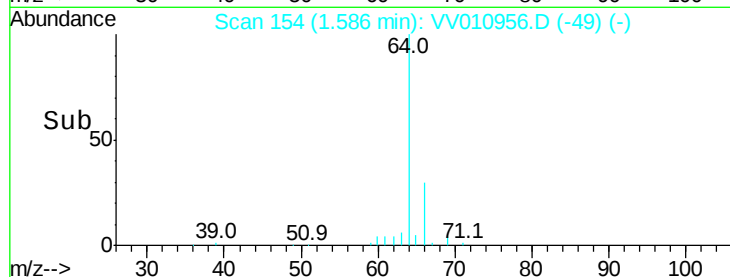
5000

0

Time-->

1.55

1.60



#9

Trichlorofluoromethane

Concen: 26.939 ug/L

RT: 1.76 min Scan# 208

Delta R.T. 0.00 min

Lab File: VV010956.D

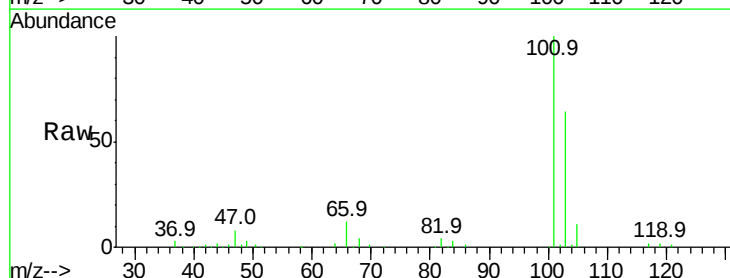
Acq: 20 May 2019 13:10

Tgt Ion: 101 Resp: 76973

Ion Ratio Lower Upper

101 100

103 63.8 45.4 84.4



Abundance Ion 101.00 (100.70 to 101.70): VV010932.D (-197) (-)

Ion 103.00 (102.70 to 103.70): VV010932.D (-197) (-)

1.76

60000

40000

20000

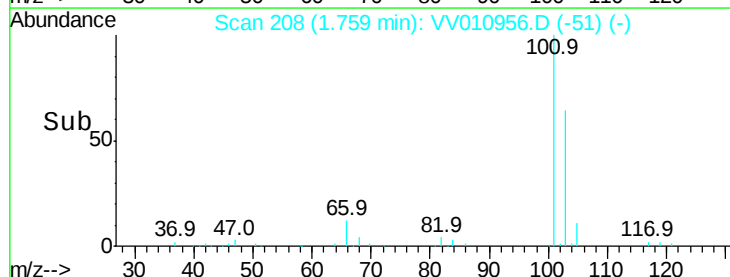
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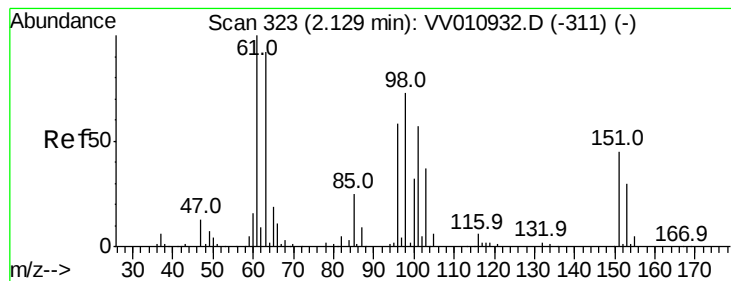
Time-->

1.70

1.75

1.80





#11

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

Concen: 25.514 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV010956.D

Acq: 20 May 2019 13:10

Instrument :

MSVOA_V

ClientSampleId :

VSTD02567

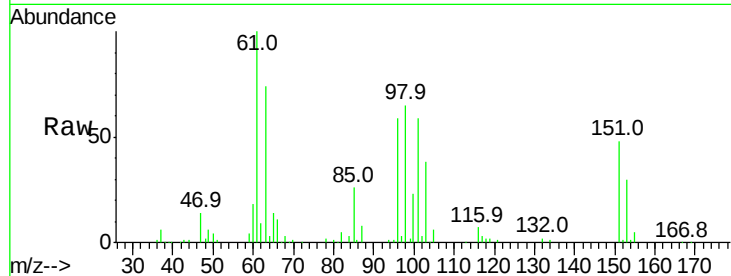
Tgt Ion: 101 Resp: 43972

Ion Ratio Lower Upper

101 100

85 42.4 35.7 53.5

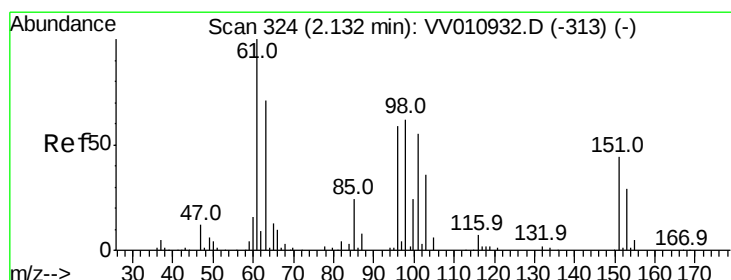
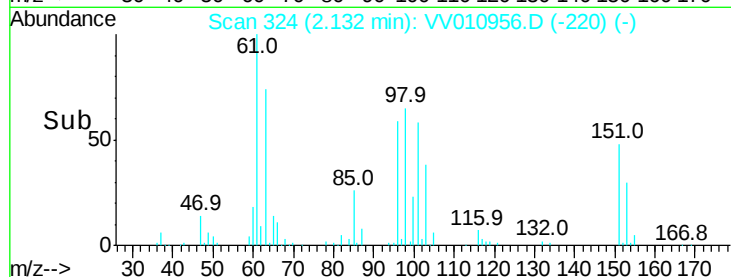
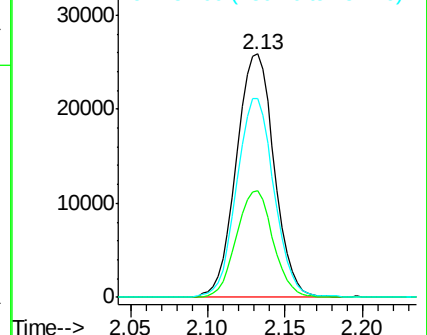
151 80.9 62.2 93.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 23.413 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV010956.D

Acq: 20 May 2019 13:10

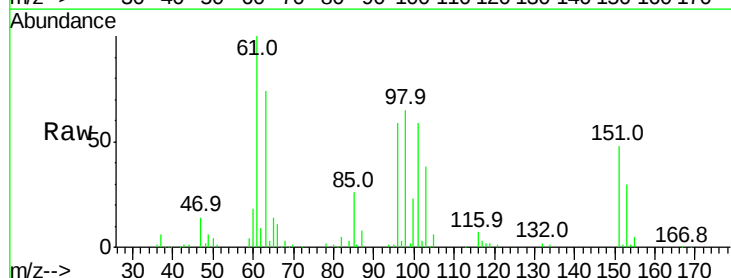
Tgt Ion: 96 Resp: 37646

Ion Ratio Lower Upper

96 100

61 168.3 117.5 218.3

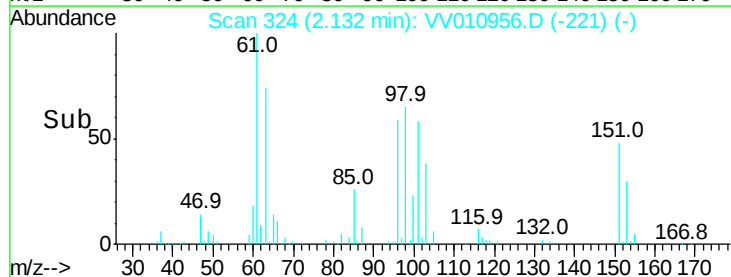
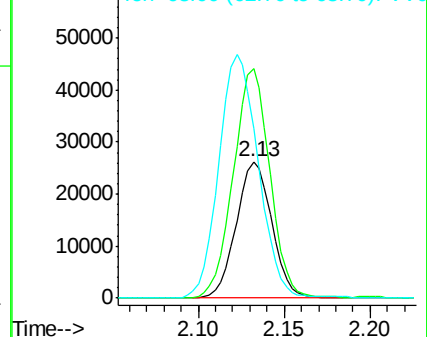
63 124.4 82.8 153.8

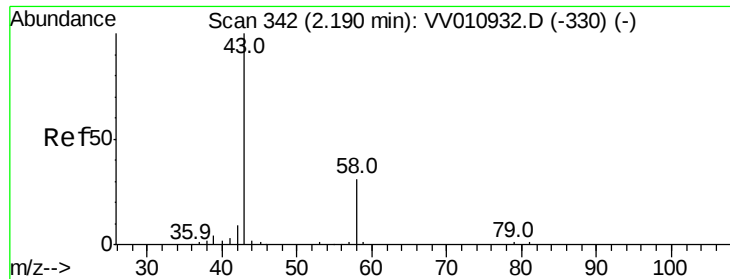


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 42.428 ug/L

RT: 2.19 min Scan# 341

Delta R.T. -0.00 min

Lab File: VV010956.D

Acq: 20 May 2019 13:10

Instrument :

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ClientSampleId :

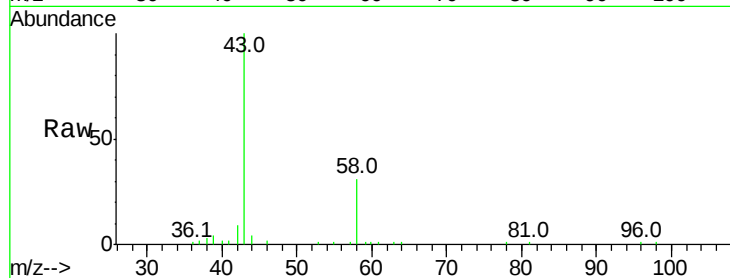
VSTD02567

Tgt Ion: 43 Resp: 24170

Ion Ratio Lower Upper

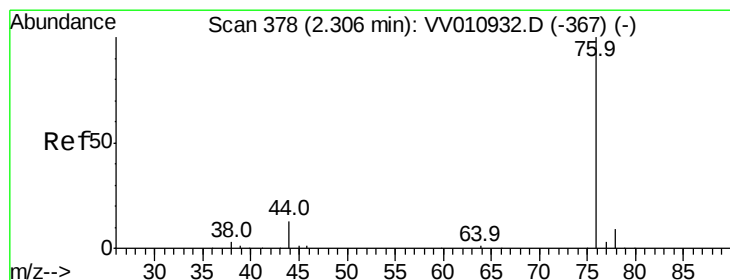
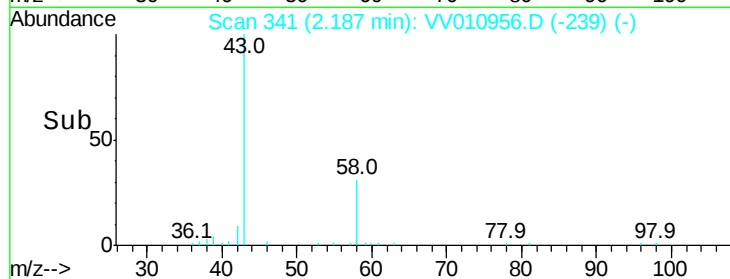
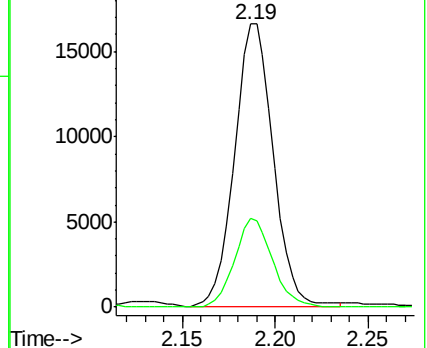
43 100

58 30.4 0.0 69.2



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0



#14

Carbon disulfide

Concen: 21.117 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VV010956.D

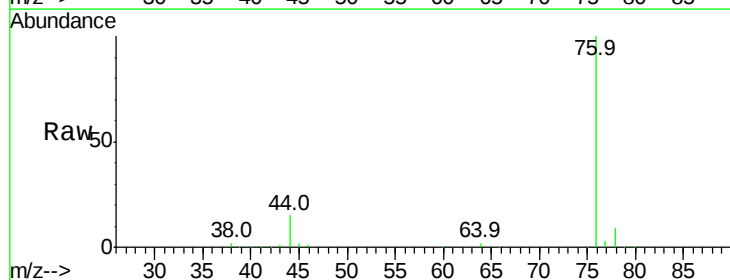
Acq: 20 May 2019 13:10

Tgt Ion: 76 Resp: 102275

Ion Ratio Lower Upper

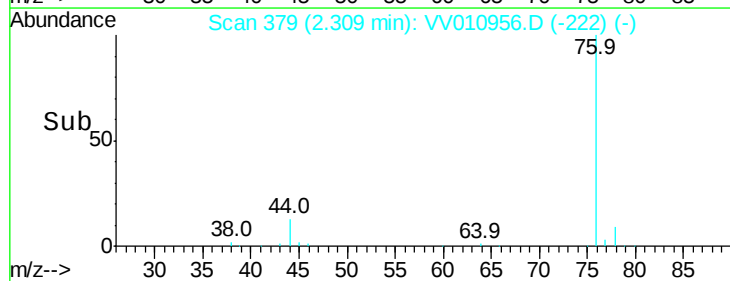
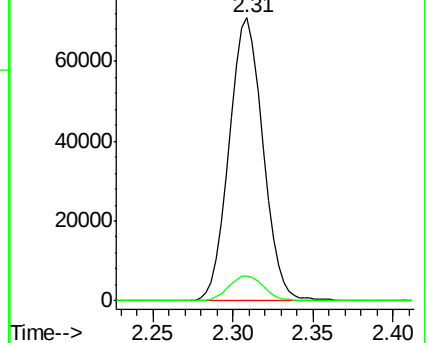
76 100

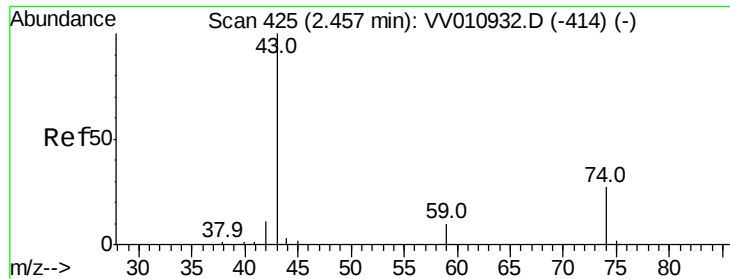
78 9.0 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VV0

Ion 78.00 (77.70 to 78.70): VV0

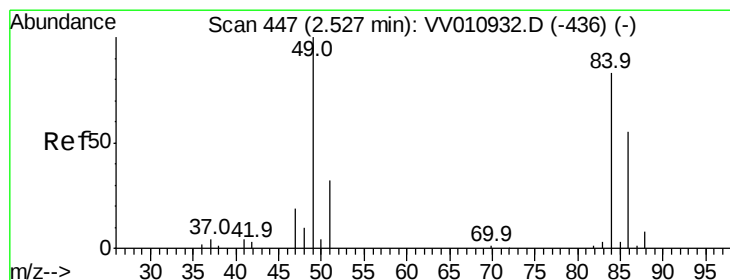
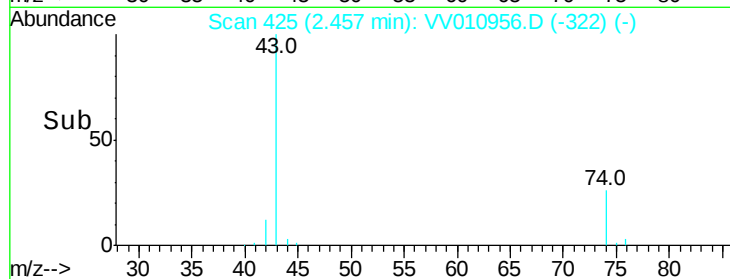
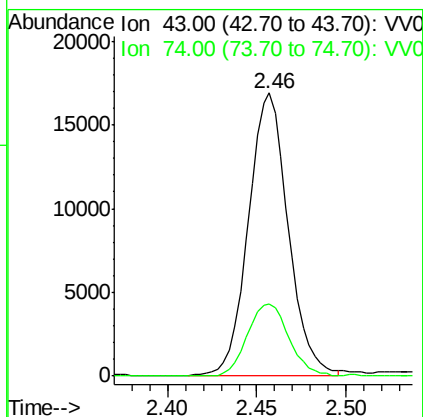
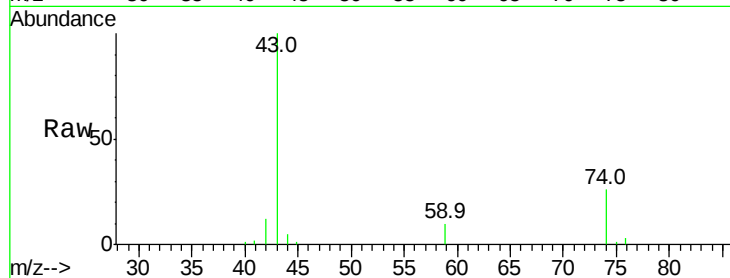




#15
Methyl Acetate
Concen: 22.283 ug/L
RT: 2.46 min Scan# 425
Delta R.T. 0.00 min
Lab File: VV010956.D
Acq: 20 May 2019 13:10

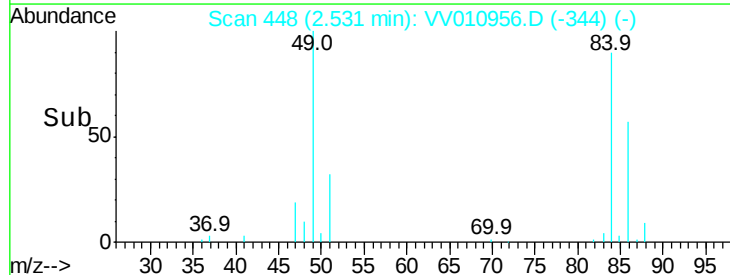
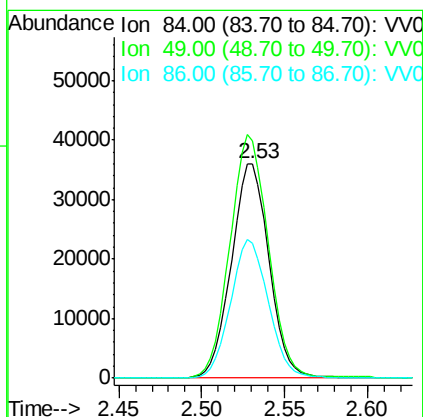
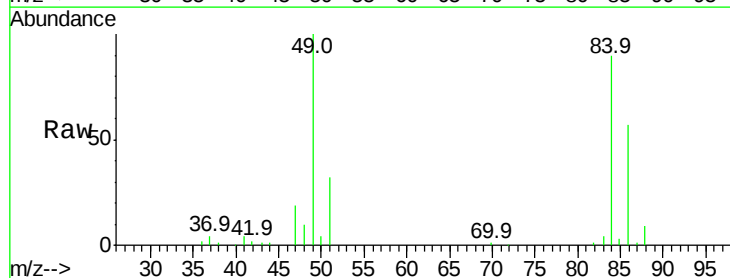
Instrument :
MSVOA_V
ClientSampleId :
VSTD02567

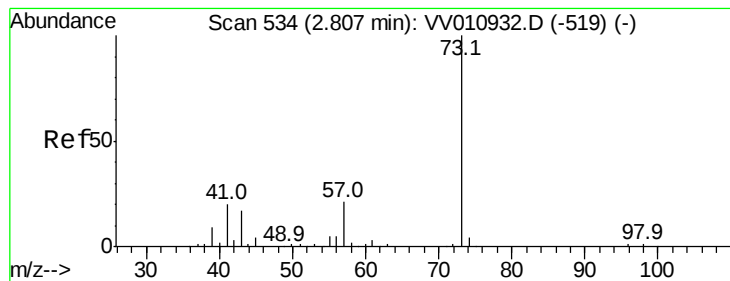
Tgt Ion: 43 Resp: 26439
Ion Ratio Lower Upper
43 100
74 26.4 18.6 27.8



#16
Methylene chloride
Concen: 25.347 ug/L
RT: 2.53 min Scan# 448
Delta R.T. 0.00 min
Lab File: VV010956.D
Acq: 20 May 2019 13:10

Tgt Ion: 84 Resp: 57076
Ion Ratio Lower Upper
84 100
49 110.6 85.8 159.3
86 62.8 45.0 83.6



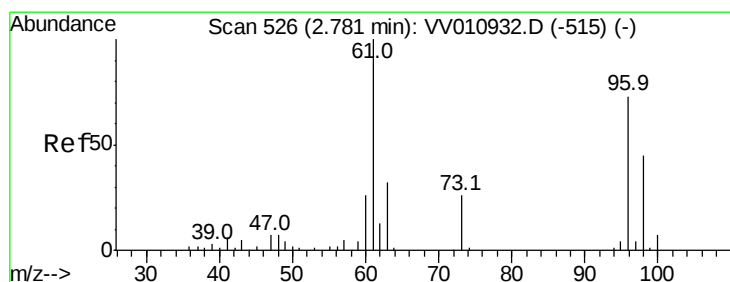
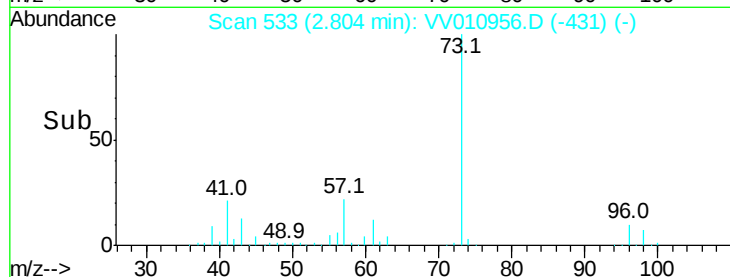
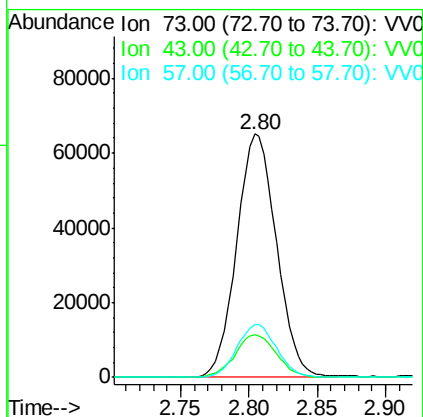
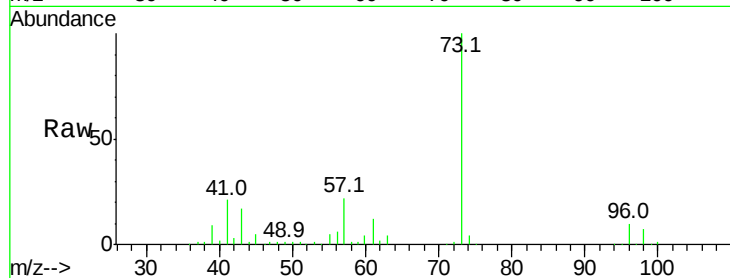


#17

Methyl tert-butyl Ether
 Concen: 25.140 ug/L
 RT: 2.80 min Scan# 533
 Delta R.T. -0.00 min
 Lab File: VV010956.D
 Acq: 20 May 2019 13:10

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02567

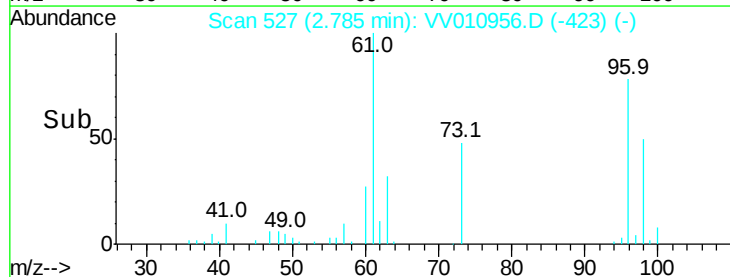
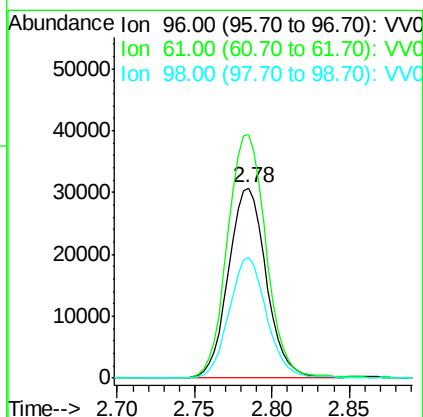
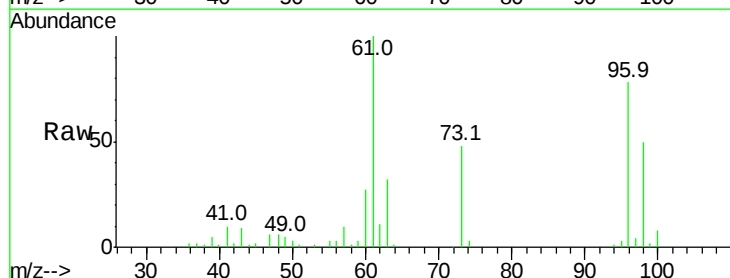
Tgt Ion: 73 Resp: 131990
 Ion Ratio Lower Upper
 73 100
 43 18.1 15.3 22.9
 57 21.6 17.5 26.3

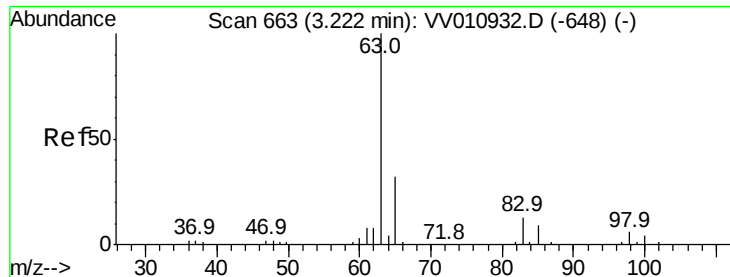


#18

trans-1,2-Dichloroethene
 Concen: 27.264 ug/L
 RT: 2.78 min Scan# 527
 Delta R.T. 0.00 min
 Lab File: VV010956.D
 Acq: 20 May 2019 13:10

Tgt Ion: 96 Resp: 52221
 Ion Ratio Lower Upper
 96 100
 61 128.1 95.0 176.4
 98 63.6 43.3 80.3

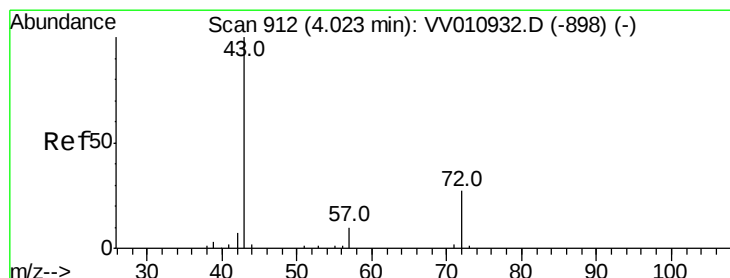
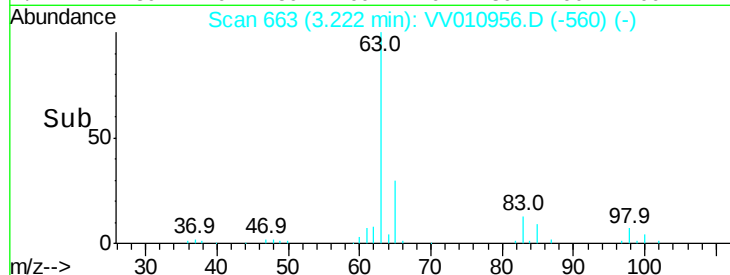
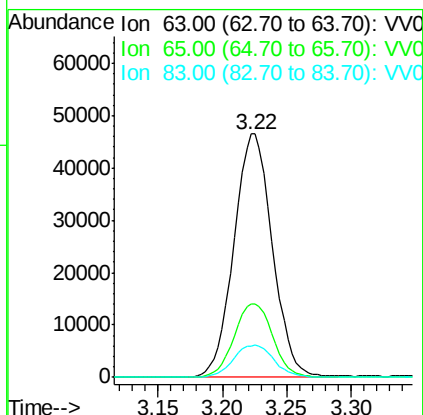
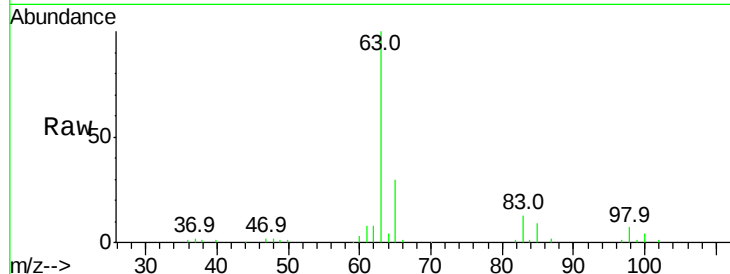




#19
 1,1-Dichloroethane
 Concen: 26.031 ug/L
 RT: 3.22 min Scan# 663
 Delta R.T. 0.00 min
 Lab File: VV010956.D
 Acq: 20 May 2019 13:10

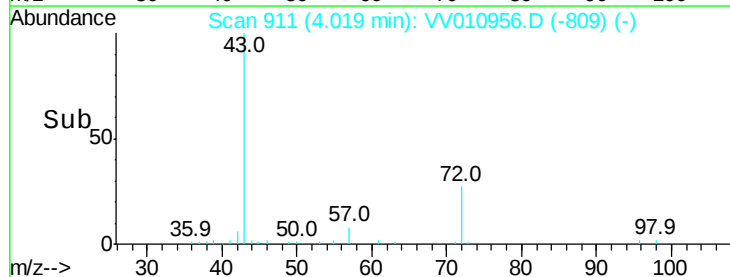
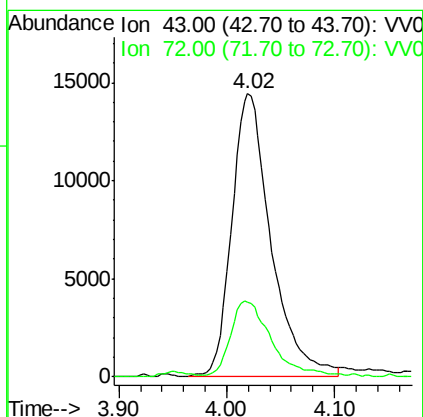
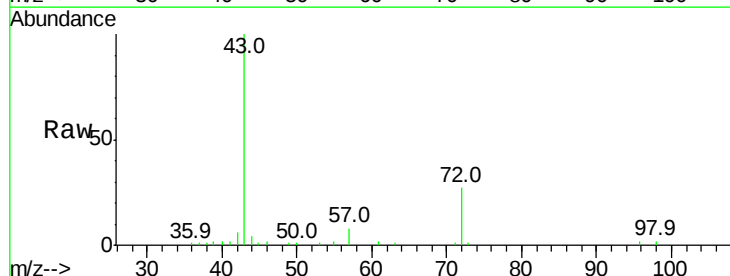
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02567

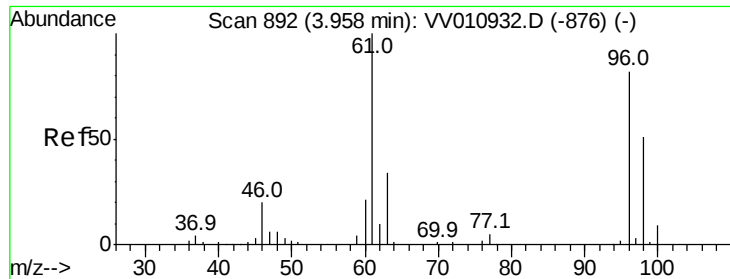
Tgt Ion: 63 Resp: 96529
 Ion Ratio Lower Upper
 63 100
 65 30.2 22.1 41.1
 83 13.0 9.7 17.9



#21
 2-Butanone
 Concen: 49.912 ug/L
 RT: 4.02 min Scan# 911
 Delta R.T. -0.00 min
 Lab File: VV010956.D
 Acq: 20 May 2019 13:10

Tgt Ion: 43 Resp: 36702
 Ion Ratio Lower Upper
 43 100
 72 26.2 13.7 41.1



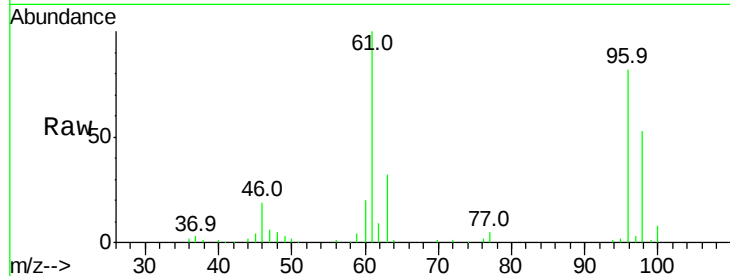


#22

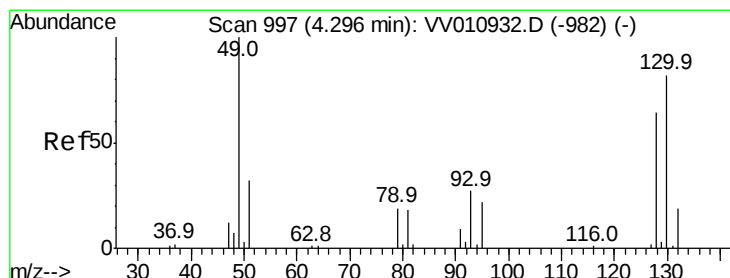
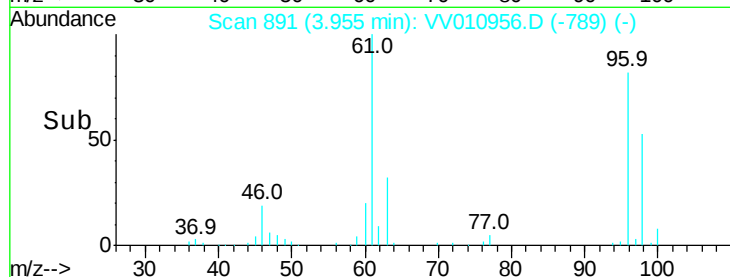
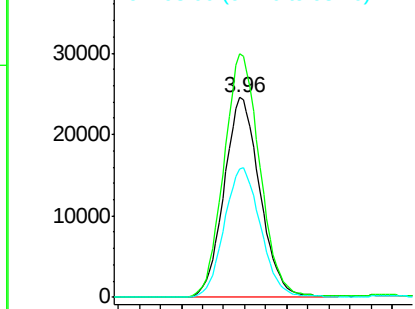
cis-1,2-Dichloroethene
Concen: 25.890 ug/L
RT: 3.96 min Scan# 891
Delta R.T. -0.00 min
Lab File: VV010956.D
Acq: 20 May 2019 13:10

Instrument :
MSVOA_V
ClientSampleId :
VSTD02567

Tgt Ion: 96 Resp: 58031
Ion Ratio Lower Upper
96 100
61 122.0 90.2 167.6
98 64.4 44.2 82.0



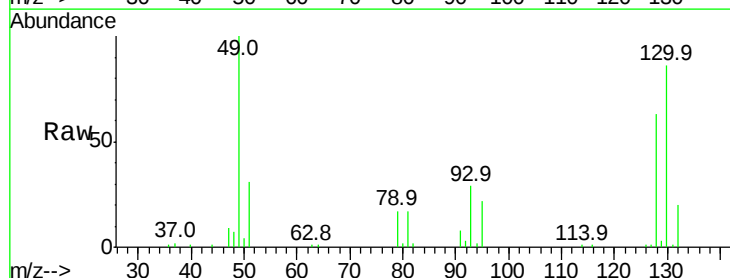
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0



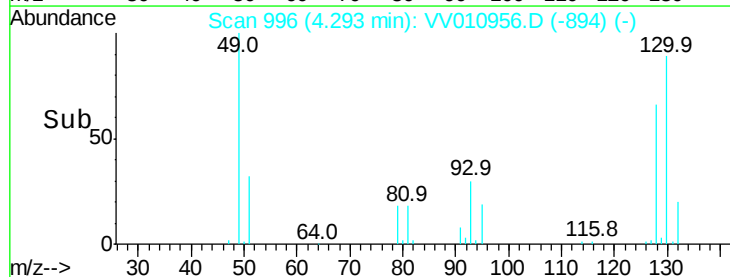
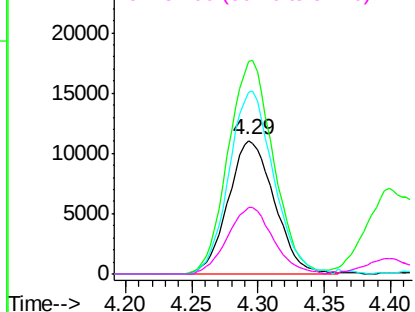
#23

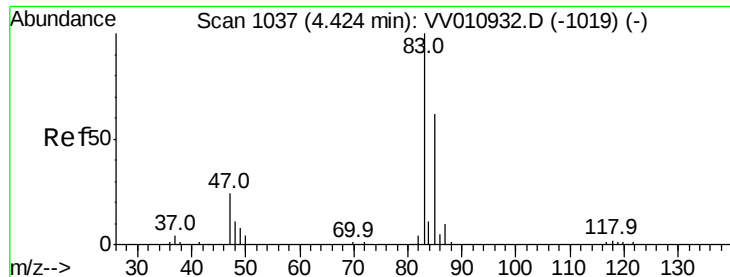
Bromochloromethane
Concen: 25.714 ug/L
RT: 4.29 min Scan# 996
Delta R.T. -0.00 min
Lab File: VV010956.D
Acq: 20 May 2019 13:10

Tgt Ion: 128 Resp: 26848
Ion Ratio Lower Upper
128 100
49 159.5 117.8 218.8
130 136.4 88.4 164.2
51 49.7 40.6 60.8



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: 27.355 ug/L

RT: 4.42 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VV010956.D

Acq: 20 May 2019 13:10

Instrument :

MSVOA_V

ClientSampleId :

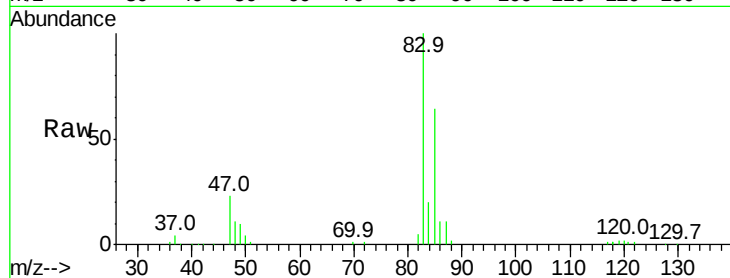
VSTD02567

Tgt Ion: 83 Resp: 110037

Ion Ratio Lower Upper

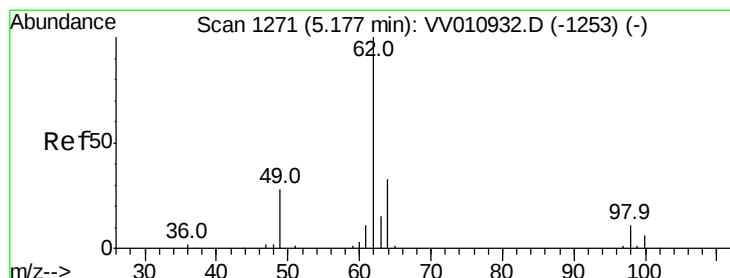
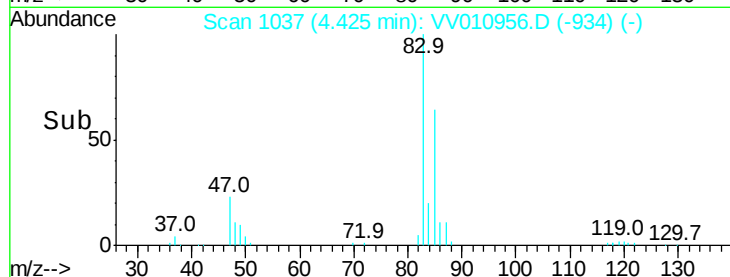
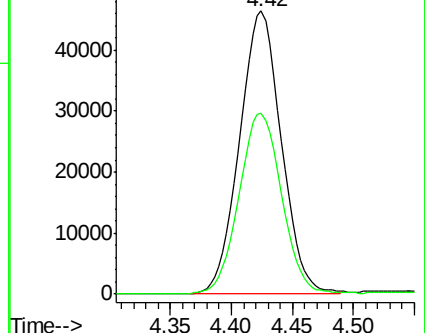
83 100

85 65.2 45.3 84.1



Abundance Ion 83.00 (82.70 to 83.70): VV010932.D (-1019) (-)

Ion 85.00 (84.70 to 85.70): VV010932.D (-1019) (-)



#27

1,2-Dichloroethane

Concen: 23.382 ug/L

RT: 5.18 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VV010956.D

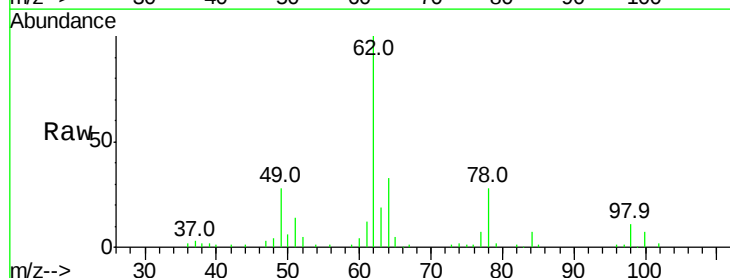
Acq: 20 May 2019 13:10

Tgt Ion: 62 Resp: 65624

Ion Ratio Lower Upper

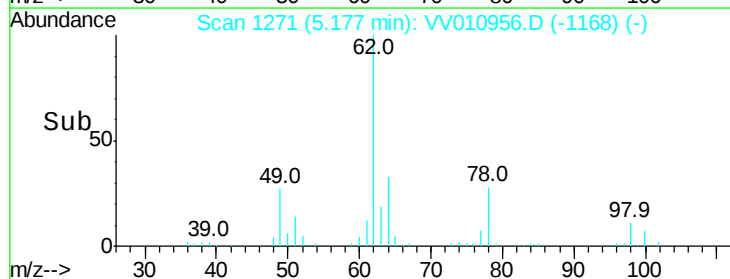
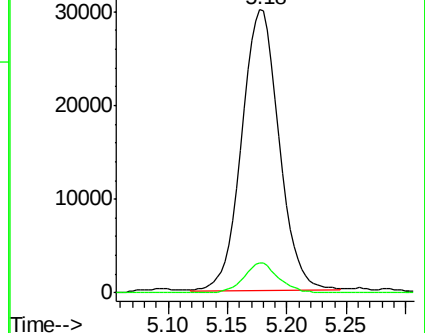
62 100

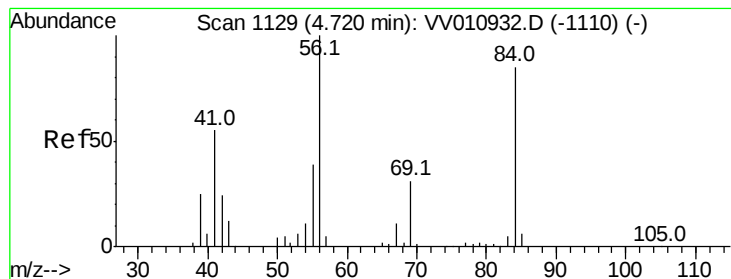
98 10.8 7.0 10.4#



Abundance Ion 62.00 (61.70 to 62.70): VV010932.D (-1253) (-)

Ion 98.00 (97.70 to 98.70): VV010932.D (-1253) (-)





#30

Cyclohexane

Concen: 27.505 ug/L

RT: 4.72 min Scan# 1129

Delta R.T. 0.00 min

Lab File: VV010956.D

Acq: 20 May 2019 13:10

Instrument :

MSVOA_V

ClientSampleId :

VSTD02567

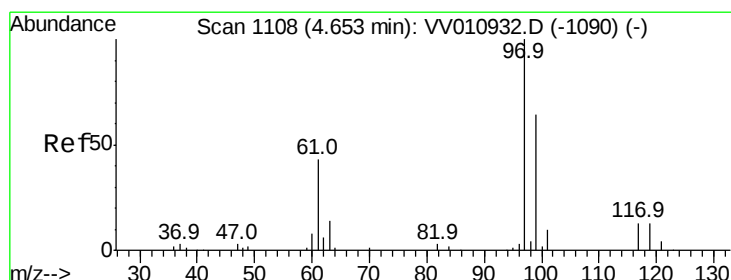
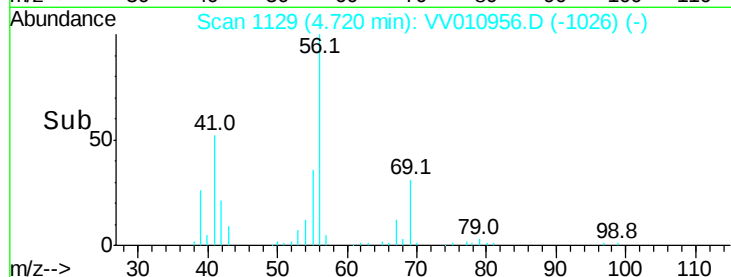
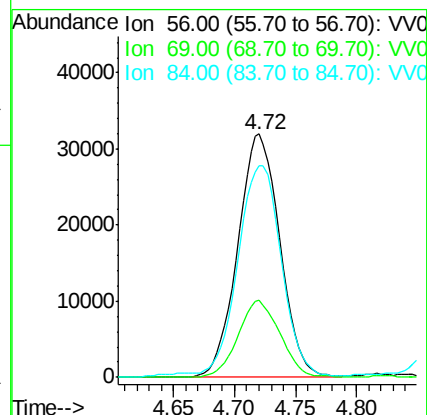
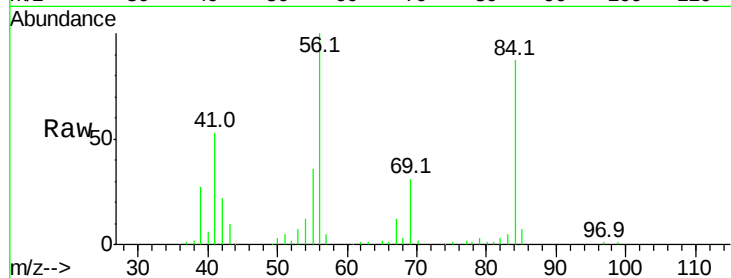
Tgt Ion: 56 Resp: 76229

Ion Ratio Lower Upper

56 100

69 31.4 25.2 37.8

84 90.5 69.0 103.4



#31

1,1,1-Trichloroethane

Concen: 26.823 ug/L

RT: 4.65 min Scan# 1108

Delta R.T. 0.00 min

Lab File: VV010956.D

Acq: 20 May 2019 13:10

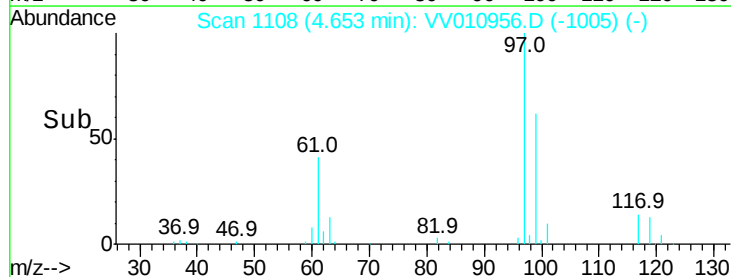
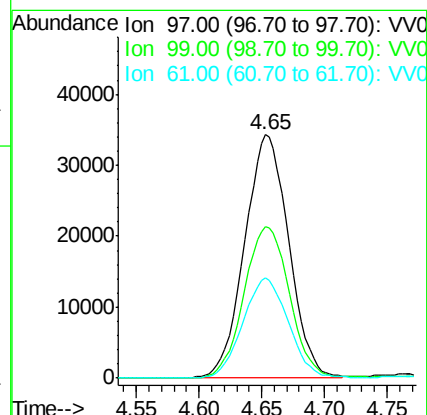
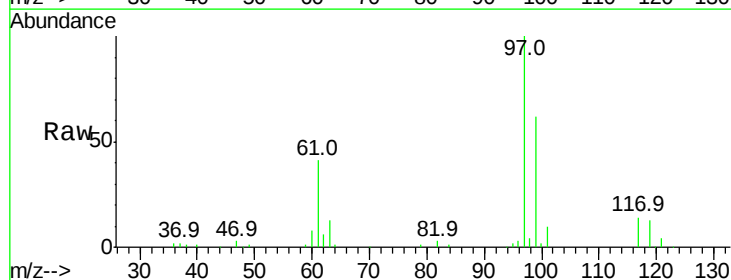
Tgt Ion: 97 Resp: 83979

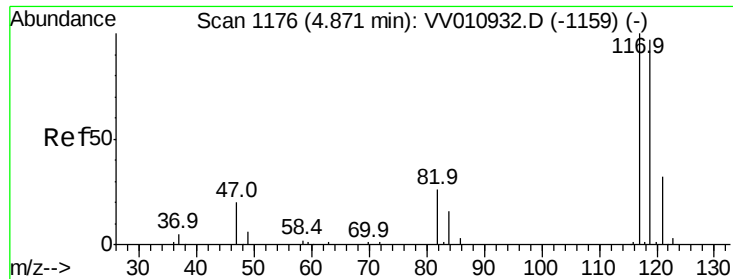
Ion Ratio Lower Upper

97 100

99 63.7 49.4 74.2

61 42.4 34.6 51.8





#32

Carbon tetrachloride

Concen: 28.354 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. 0.00 min

Lab File: VV010956.D

Acq: 20 May 2019 13:10

Instrument :

MSVOA_V

ClientSampleId :

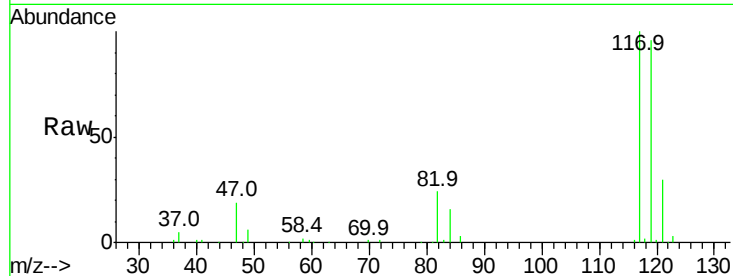
VSTD02567

Tgt Ion:117 Resp: 75756

Ion Ratio Lower Upper

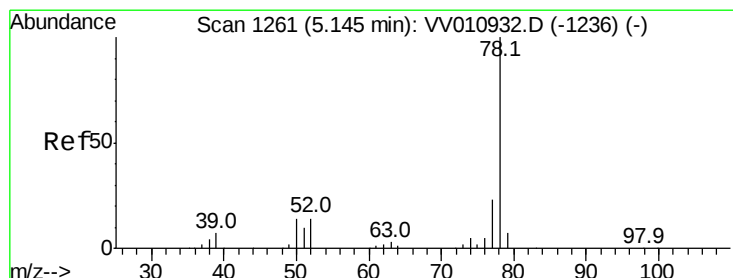
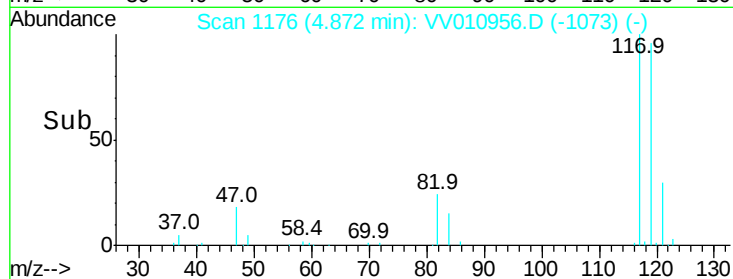
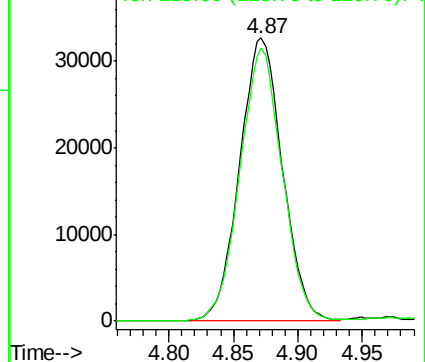
117 100

119 95.1 76.5 114.7



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 25.578 ug/L

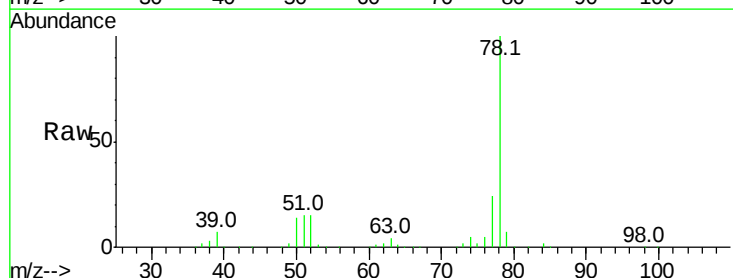
RT: 5.14 min Scan# 1261

Delta R.T. 0.00 min

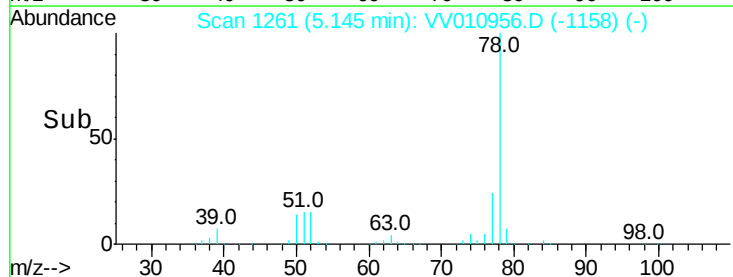
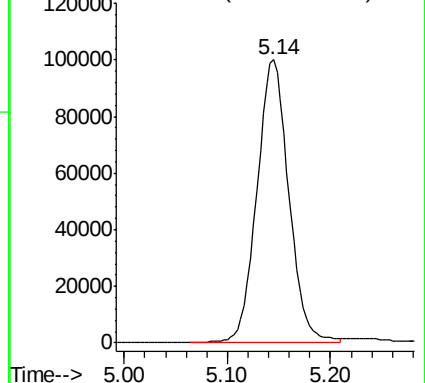
Lab File: VV010956.D

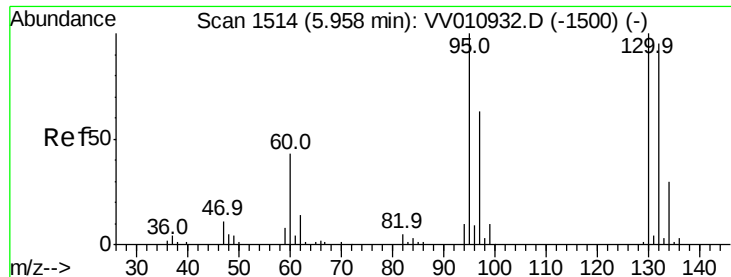
Acq: 20 May 2019 13:10

Tgt Ion: 78 Resp: 214900



Abundance Ion 78.00 (77.70 to 78.70): VV0





#35

Trichloroethene

Concen: 26.692 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VV010956.D

Acq: 20 May 2019 13:10

Instrument :

MSVOA_V

ClientSampleId :

VSTD02567

Tgt Ion: 95 Resp: 58124

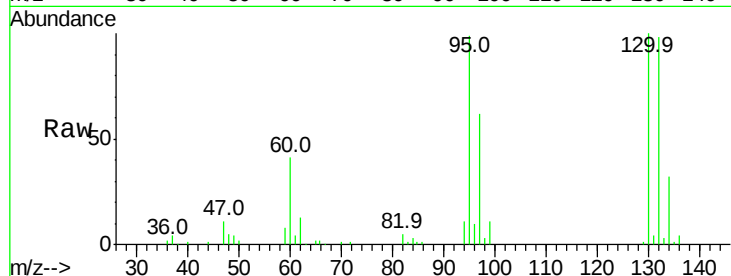
Ion Ratio Lower Upper

95 100

97 62.0 46.0 85.4

132 98.3 67.4 125.2

130 99.9 68.5 127.1

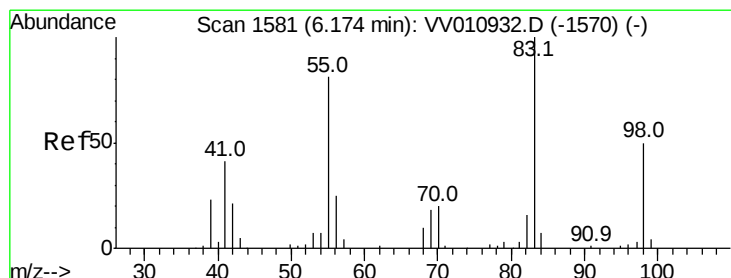
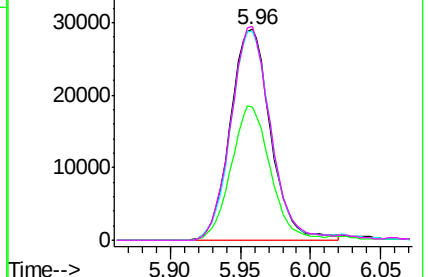
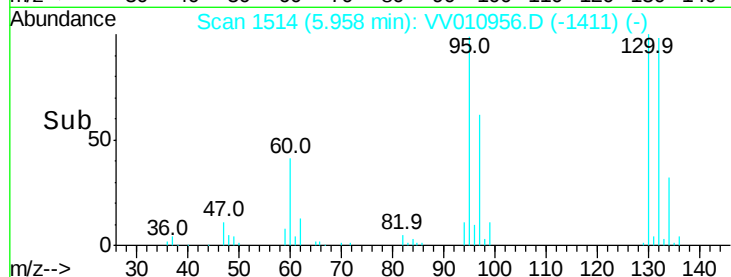


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#36

Methylcyclohexane

Concen: 27.443 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. 0.00 min

Lab File: VV010956.D

Acq: 20 May 2019 13:10

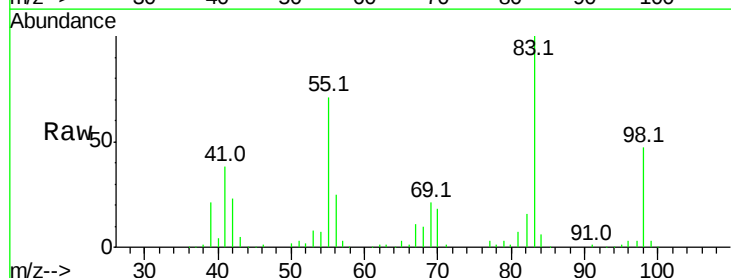
Tgt Ion: 83 Resp: 83162

Ion Ratio Lower Upper

83 100

55 75.3 61.0 91.4

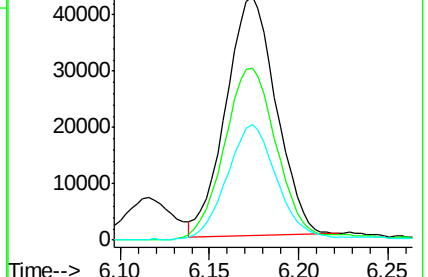
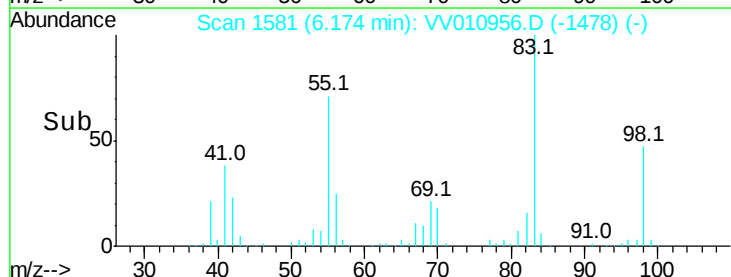
98 47.9 37.2 55.8

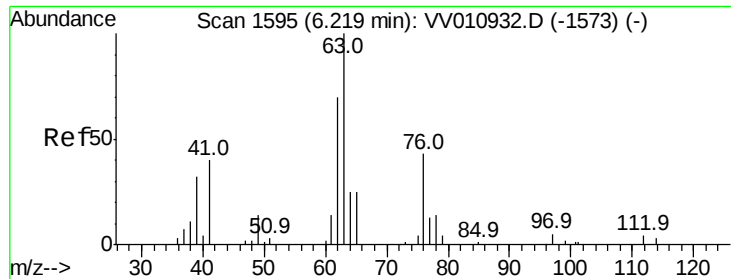


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#40

1,2-Dichloropropane

Concen: 23.500 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. 0.00 min

Lab File: VV010956.D

Acq: 20 May 2019 13:10

Instrument :

MSVOA_V

ClientSampleId :

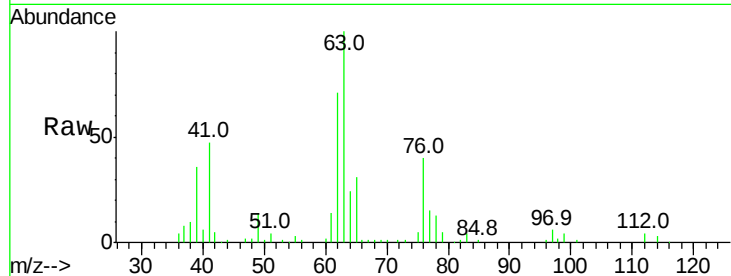
VSTD02567

Tgt Ion: 63 Resp: 53777

Ion Ratio Lower Upper

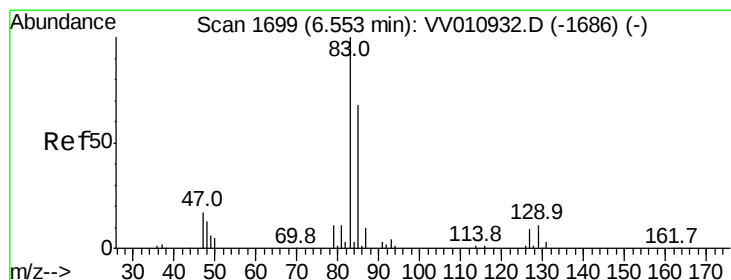
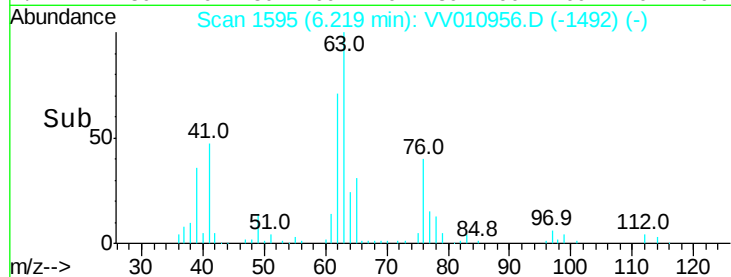
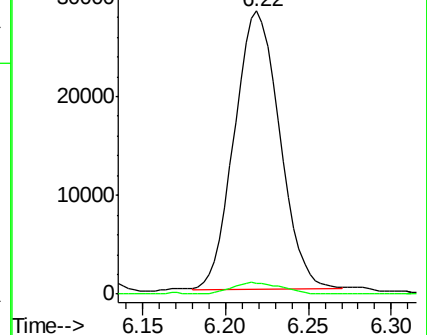
63 100

112 4.5 3.2 4.8



Abundance Ion 63.00 (62.70 to 63.70): VV010932.D (-1573) (-)

Ion 112.00 (111.70 to 112.70): VV010932.D (-1573) (-)



#41

Bromodichloromethane

Concen: 25.349 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VV010956.D

Acq: 20 May 2019 13:10

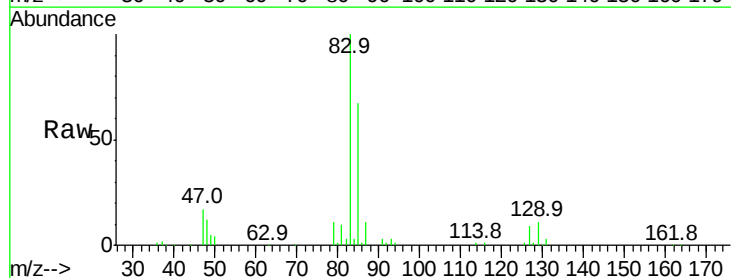
Tgt Ion: 83 Resp: 74386

Ion Ratio Lower Upper

83 100

85 66.7 45.3 84.1

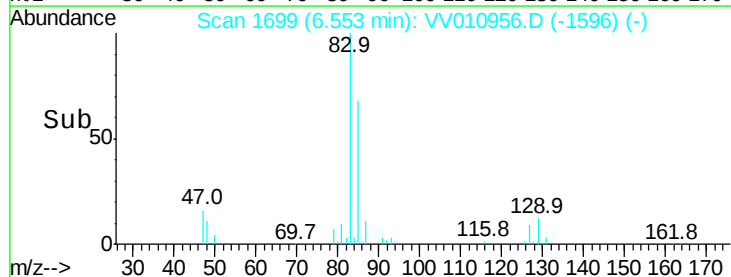
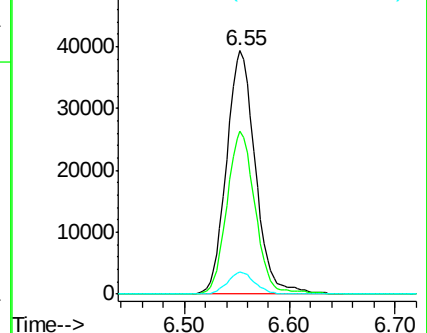
127 8.9 7.4 11.2

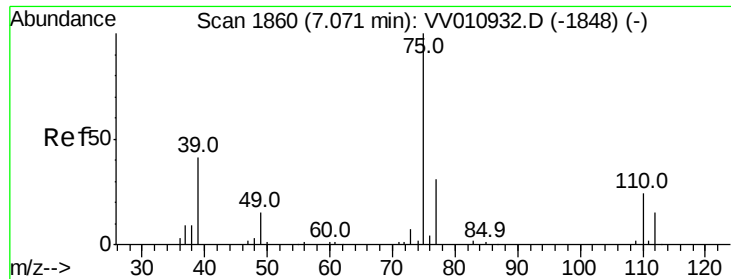


Abundance Ion 83.00 (82.70 to 83.70): VV010932.D (-1686) (-)

Ion 85.00 (84.70 to 85.70): VV010932.D (-1686) (-)

Ion 127.00 (126.70 to 127.70): VV010932.D (-1686) (-)



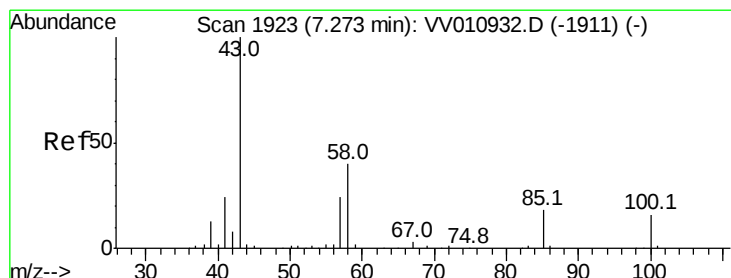
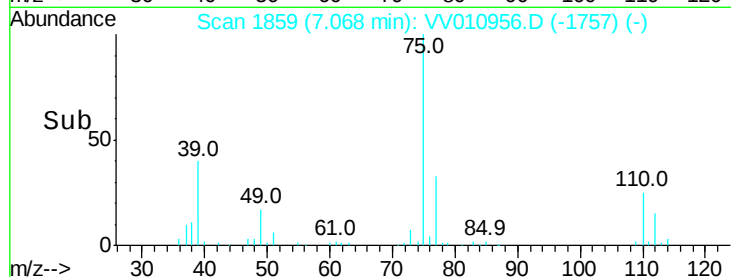
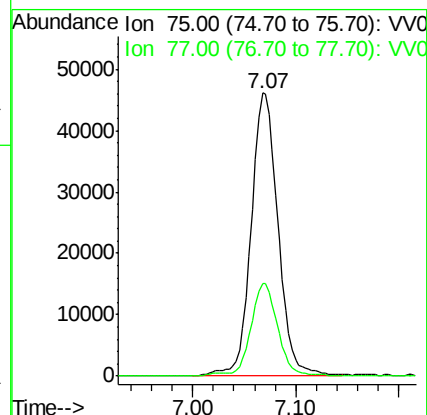
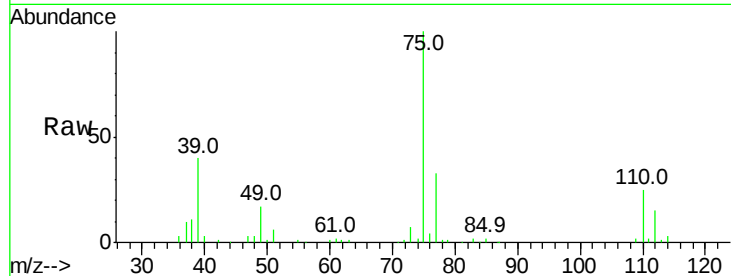


#42

cis-1,3-Dichloropropene
Concen: 25.113 ug/L
RT: 7.07 min Scan# 1859
Delta R.T. -0.00 min
Lab File: VV010956.D
Acq: 20 May 2019 13:10

Instrument :
MSVOA_V
ClientSampleId :
VSTD02567

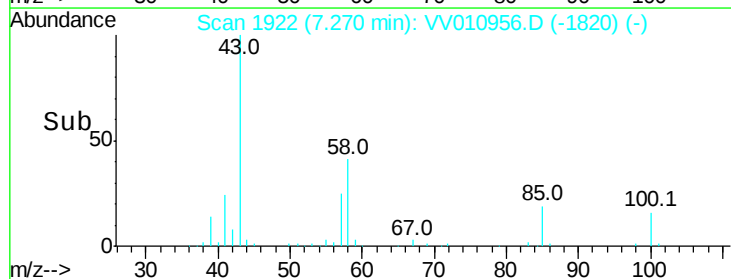
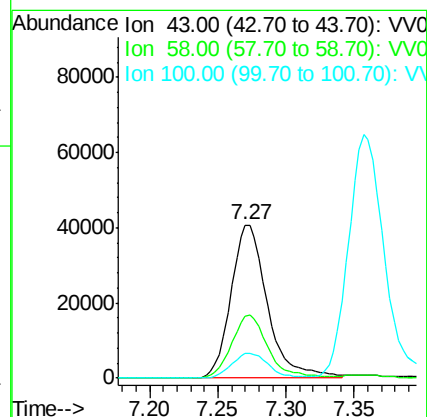
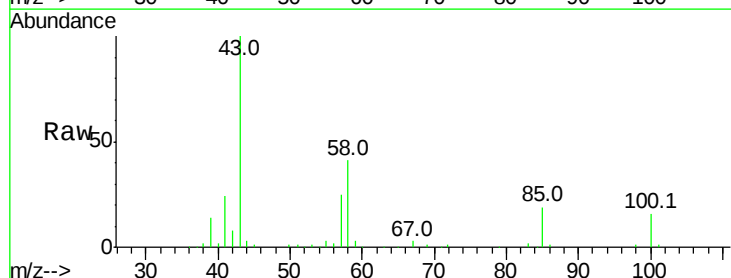
Tgt Ion: 75 Resp: 83841
Ion Ratio Lower Upper
75 100
77 32.7 21.5 39.9

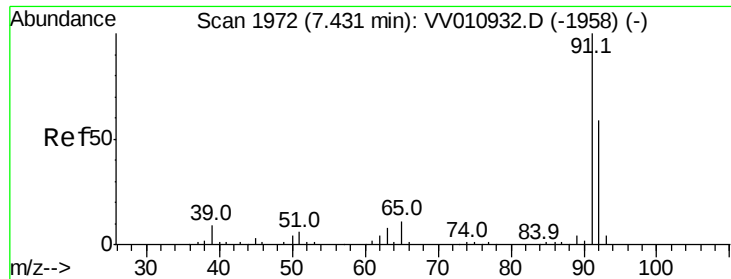


#43

4-Methyl-2-pentanone
Concen: 47.014 ug/L
RT: 7.27 min Scan# 1922
Delta R.T. -0.00 min
Lab File: VV010956.D
Acq: 20 May 2019 13:10

Tgt Ion: 43 Resp: 75980
Ion Ratio Lower Upper
43 100
58 41.4 30.0 45.0
100 16.4 11.2 16.8





#44

Toluene

Concen: 26.011 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV010956.D

Acq: 20 May 2019 13:10

Instrument :

MSVOA_V

ClientSampleId :

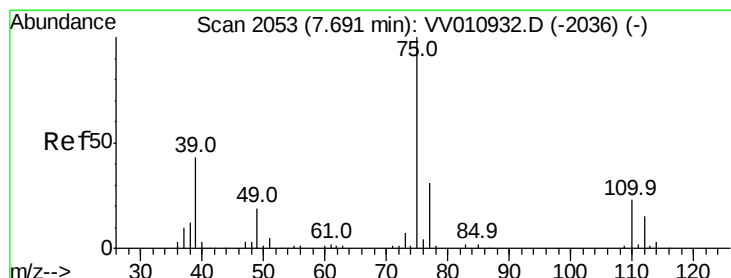
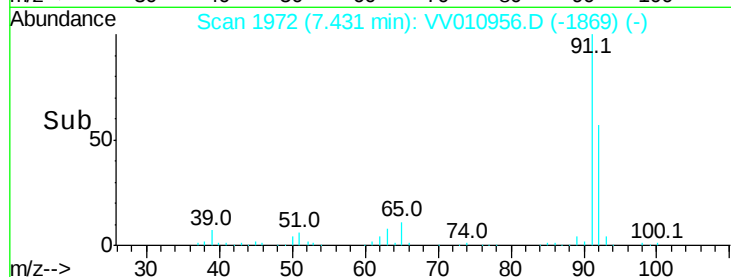
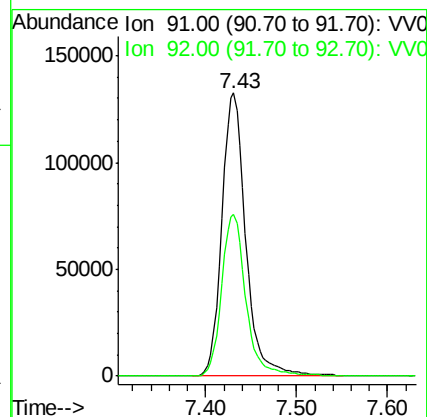
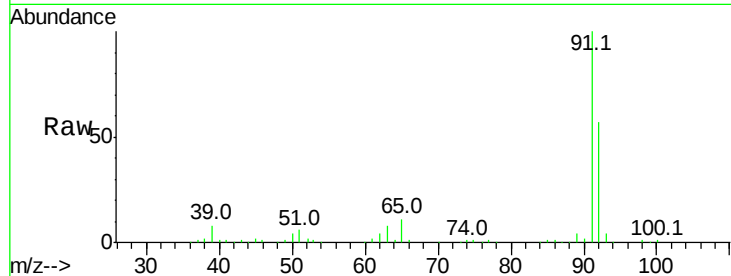
VSTD02567

Tgt Ion: 91 Resp: 242928

Ion Ratio Lower Upper

91 100

92 57.2 39.1 72.7



#45

trans-1,3-Dichloropropene

Concen: 25.203 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV010956.D

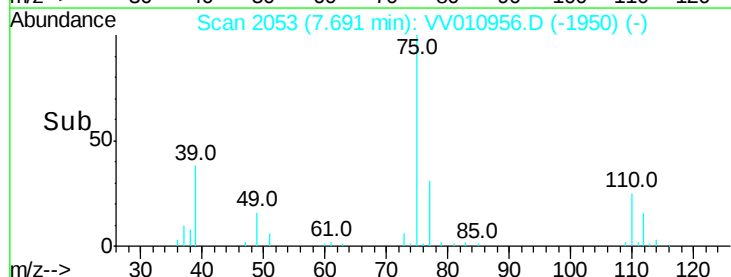
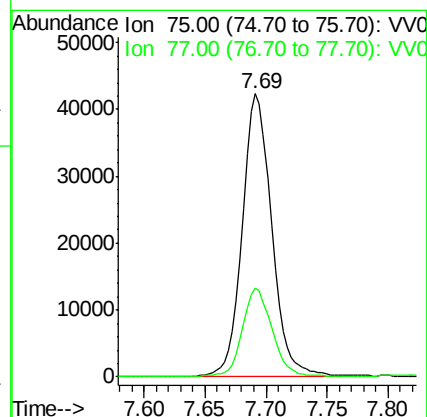
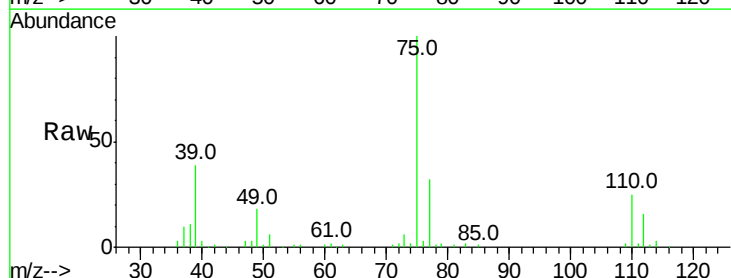
Acq: 20 May 2019 13:10

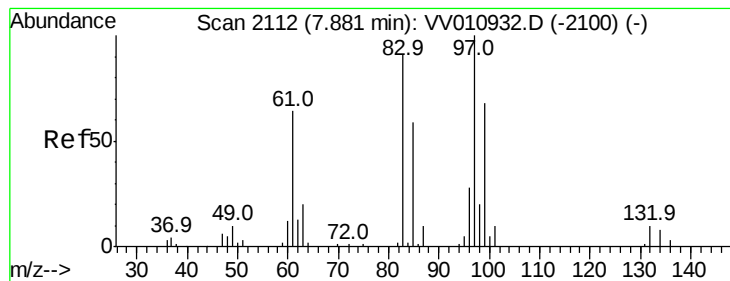
Tgt Ion: 75 Resp: 71112

Ion Ratio Lower Upper

75 100

77 31.5 21.6 40.0





#46

1,1,2-Trichloroethane

Concen: 25.766 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VV010956.D

Acq: 20 May 2019 13:10

Instrument :

MSVOA_V

ClientSampleId :

VSTD02567

Tgt Ion: 97 Resp: 47487

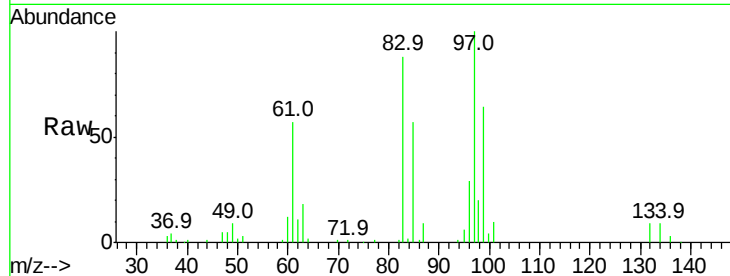
Ion Ratio Lower Upper

97 100

83 88.0 57.2 106.2

85 57.4 37.4 69.4

99 64.4 42.0 78.0



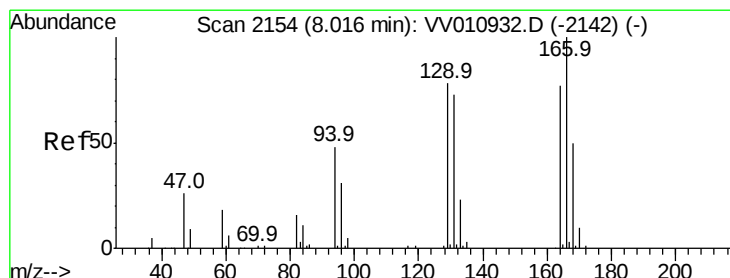
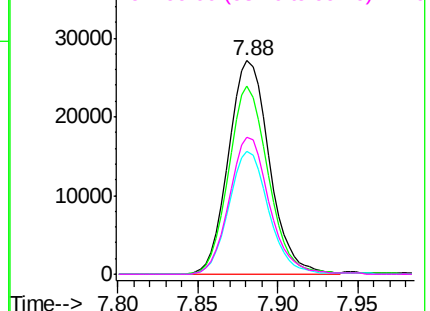
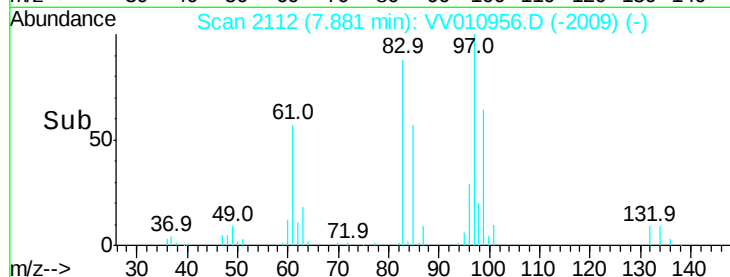
Abundance

Ion 97.00 (96.70 to 97.70): VV010956.D (-2099) (-)

Ion 83.00 (82.70 to 83.70): VV010956.D (-2099) (-)

Ion 85.00 (84.70 to 85.70): VV010956.D (-2099) (-)

Ion 99.00 (98.70 to 99.70): VV010956.D (-2099) (-)



#47

Tetrachloroethene

Concen: 28.834 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. 0.00 min

Lab File: VV010956.D

Acq: 20 May 2019 13:10

Tgt Ion: 164 Resp: 46395

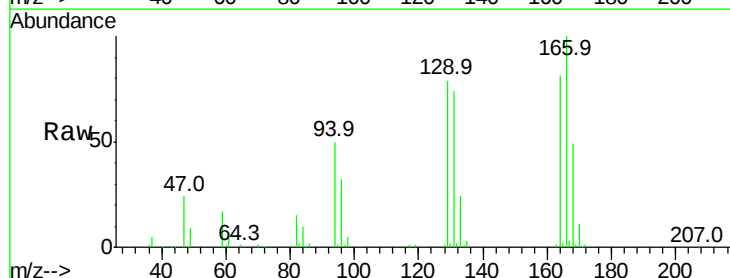
Ion Ratio Lower Upper

164 100

129 96.8 67.6 125.6

131 91.6 65.1 120.9

166 123.0 84.8 157.6



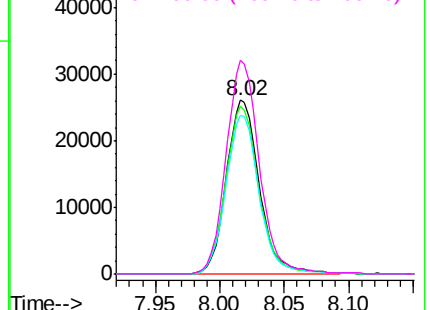
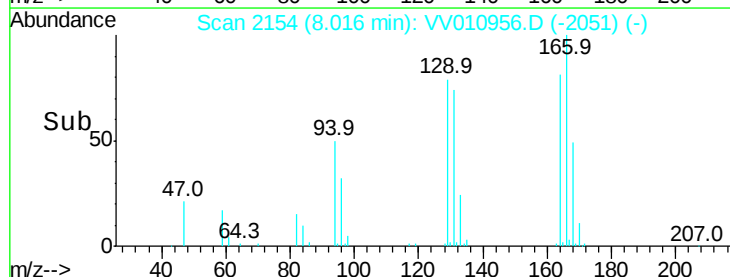
Abundance

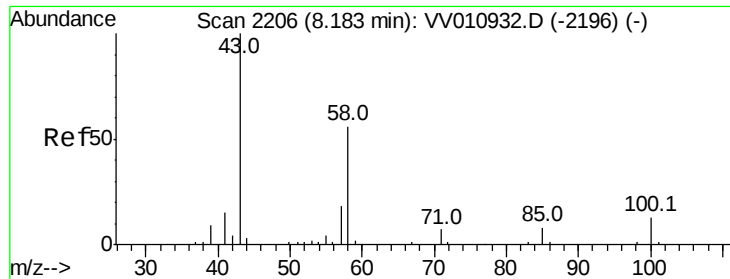
Ion 164.00 (163.70 to 164.70): VV010956.D (-2051) (-)

Ion 129.00 (128.70 to 129.70): VV010956.D (-2051) (-)

Ion 131.00 (130.70 to 131.70): VV010956.D (-2051) (-)

Ion 166.00 (165.70 to 166.70): VV010956.D (-2051) (-)

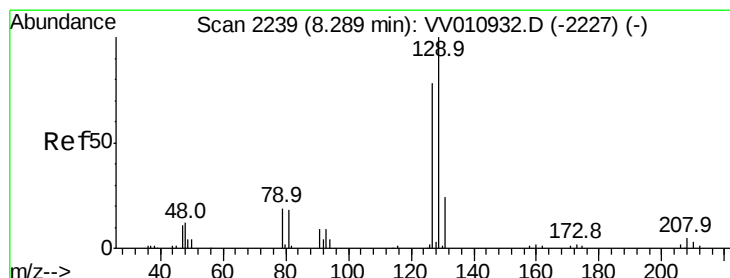
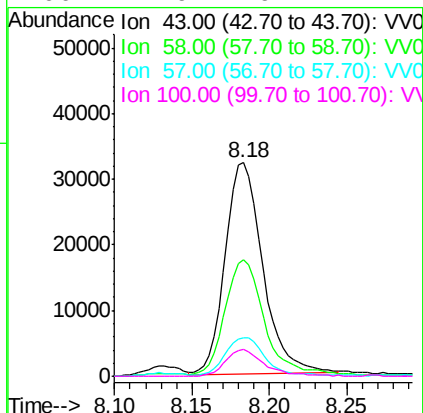
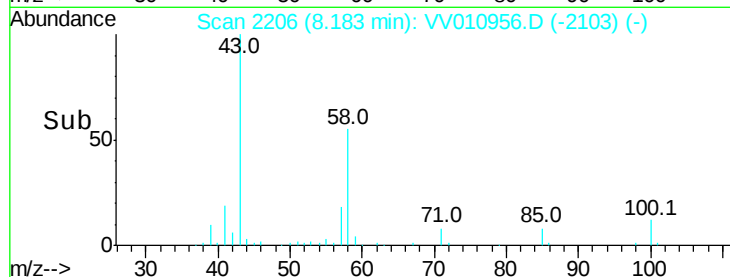
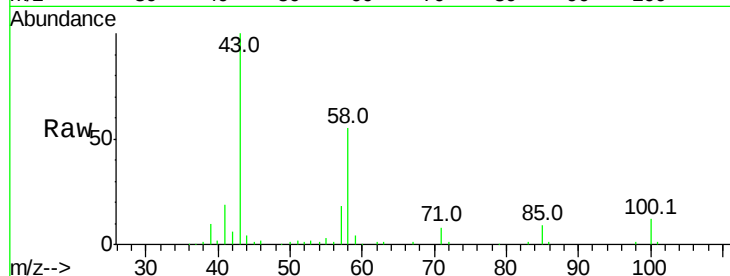




#49
2-Hexanone
Concen: 45.439 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VV010956.D
Acq: 20 May 2019 13:10

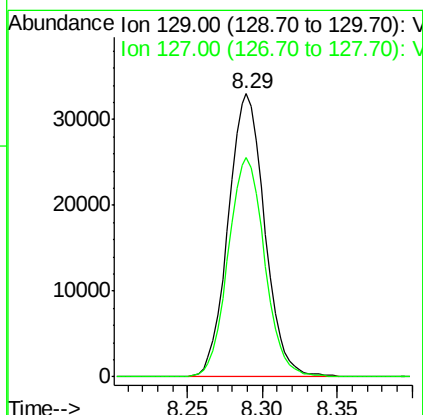
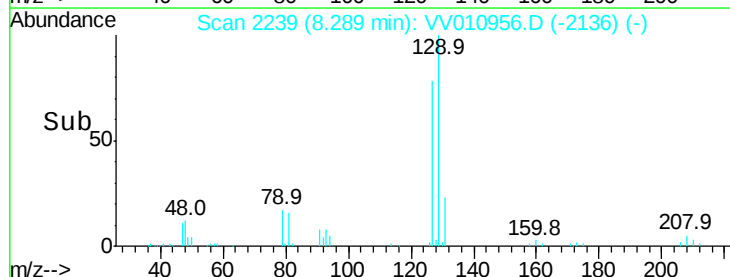
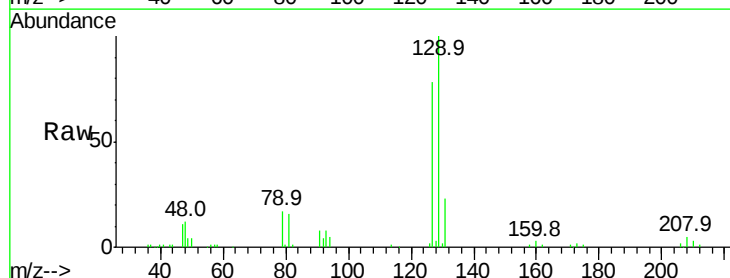
Instrument :
MSVOA_V
ClientSampleId :
VSTD02567

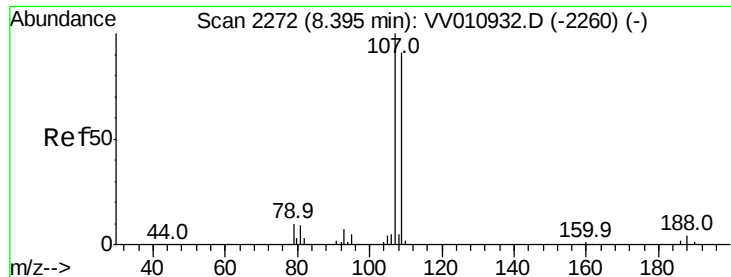
Tgt Ion:	43	Resp:	54235
Ion	Ratio	Lower	Upper
43	100		
58	57.5	41.0	61.6
57	18.1	14.3	21.5
100	12.9	9.4	14.2



#50
Dibromochloromethane
Concen: 27.303 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV010956.D
Acq: 20 May 2019 13:10

Tgt Ion:	129	Resp:	55972
Ion	Ratio	Lower	Upper
129	100		
127	77.7	53.8	100.0





#51

1,2-Dibromoethane

Concen: 25.857 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VV010956.D

Acq: 20 May 2019 13:10

Instrument :

MSVOA_V

ClientSampleId :

VSTD02567

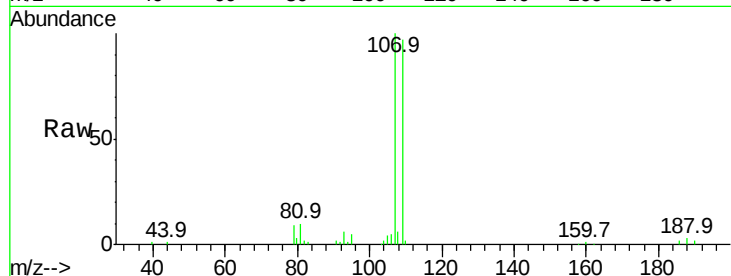
Tgt Ion:107 Resp: 44894

Ion Ratio Lower Upper

107 100

109 97.2 66.7 123.9

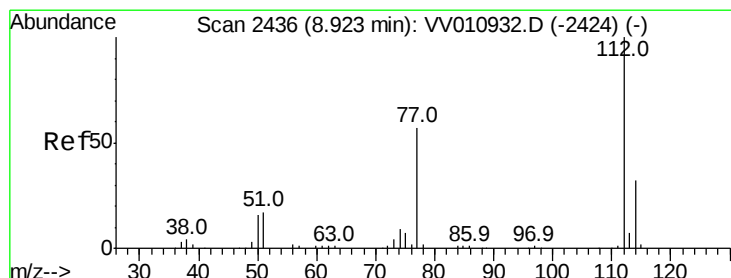
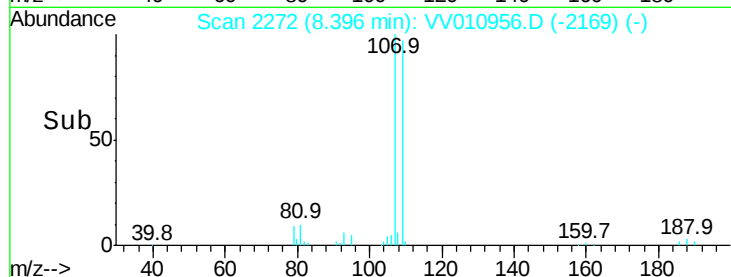
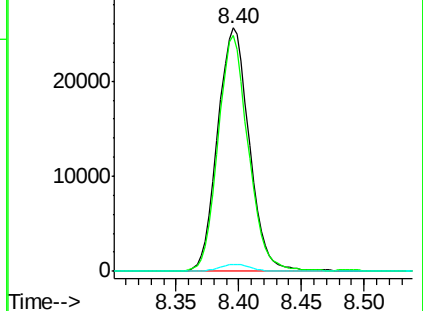
188 2.9 2.7 4.1



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: 25.333 ug/L

RT: 8.93 min Scan# 2437

Delta R.T. 0.00 min

Lab File: VV010956.D

Acq: 20 May 2019 13:10

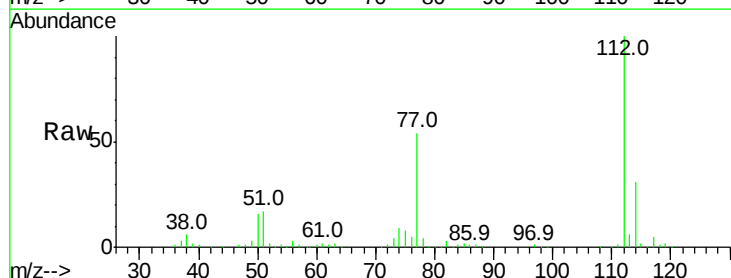
Tgt Ion:112 Resp: 161132

Ion Ratio Lower Upper

112 100

77 53.7 45.4 68.0

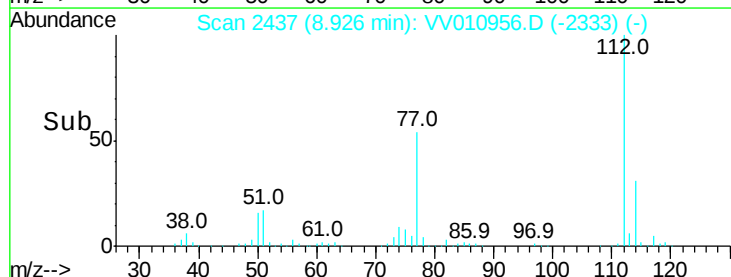
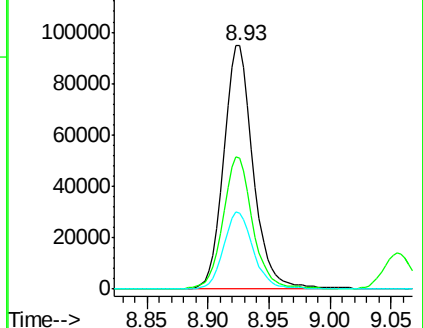
114 31.4 22.4 41.6

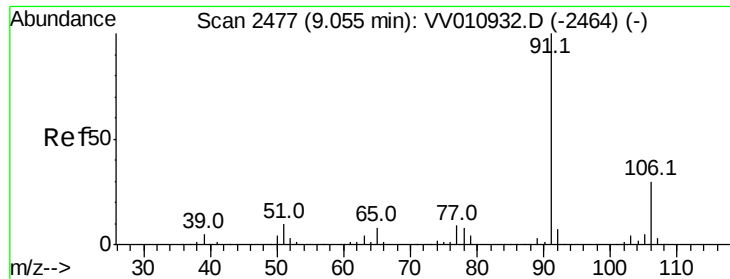


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VV0

Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 25.902 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV010956.D

Acq: 20 May 2019 13:10

Instrument :

MSVOA_V

ClientSampleId :

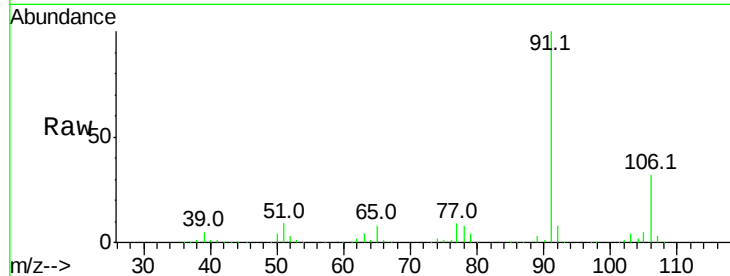
VSTD02567

Tgt Ion: 91 Resp: 265025

Ion Ratio Lower Upper

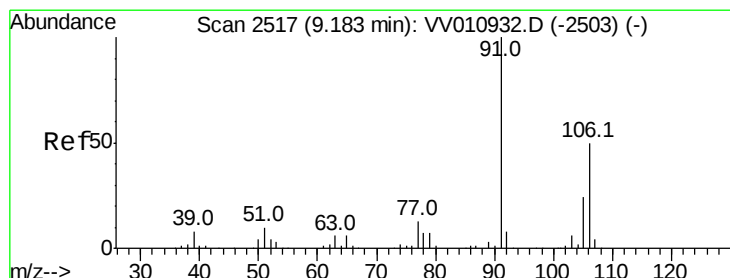
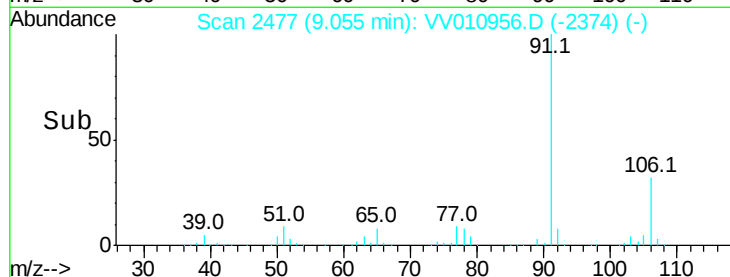
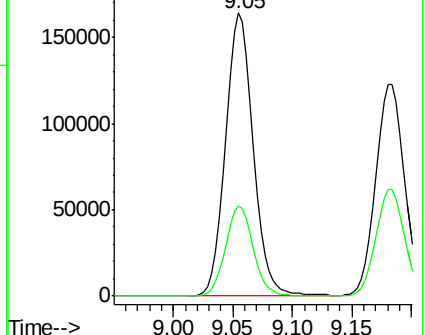
91 100

106 32.0 21.9 40.7



Abundance Ion 91.00 (90.70 to 91.70): VV010932.D (-2464) (-)

Ion 106.00 (105.70 to 106.70): VV010932.D (-2464) (-)



#54

m,p-Xylene

Concen: 26.056 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. 0.00 min

Lab File: VV010956.D

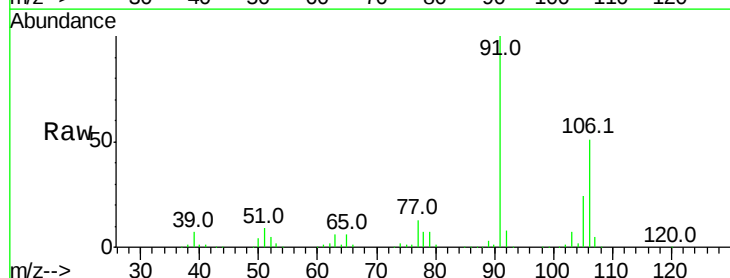
Acq: 20 May 2019 13:10

Tgt Ion: 106 Resp: 105040

Ion Ratio Lower Upper

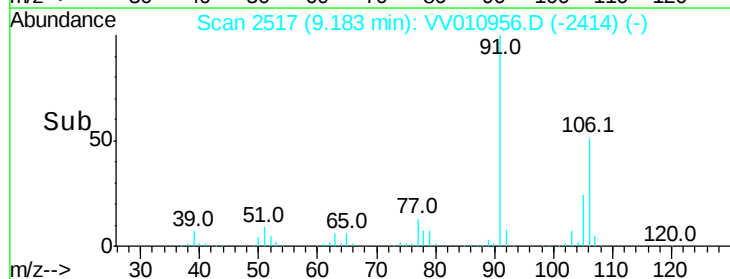
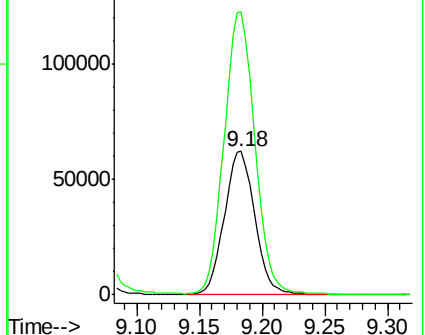
106 100

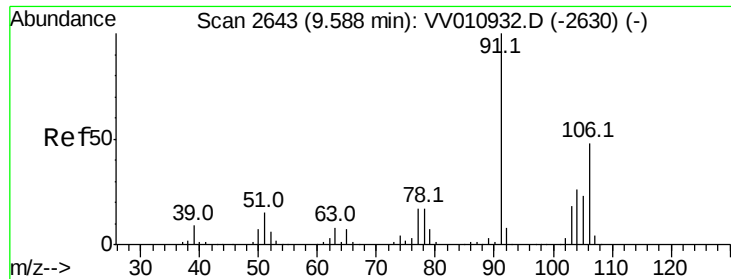
91 197.6 140.6 261.0



Abundance Ion 106.00 (105.70 to 106.70): VV010932.D (-2503) (-)

Ion 91.00 (90.70 to 91.70): VV010932.D (-2503) (-)





#55

o-xylene

Concen: 25.529 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. 0.00 min

Lab File: VV010956.D

Acq: 20 May 2019 13:10

Instrument :

MSVOA_V

ClientSampleId :

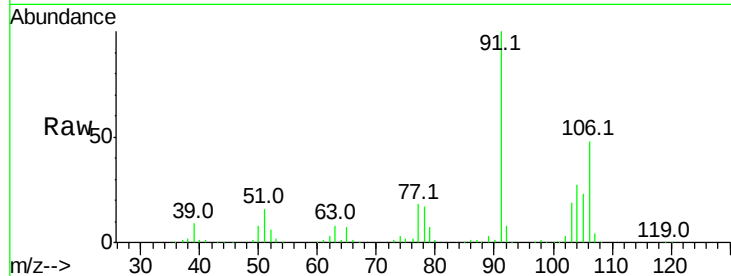
VSTD02567

Tgt Ion:106 Resp: 101114

Ion Ratio Lower Upper

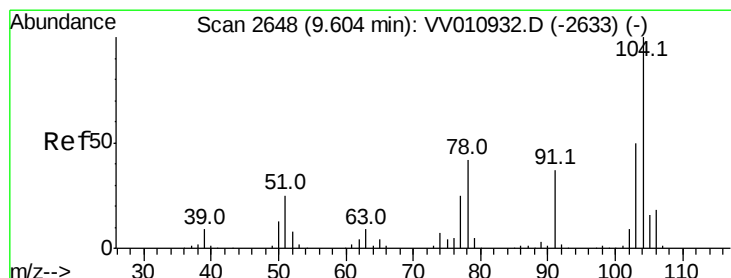
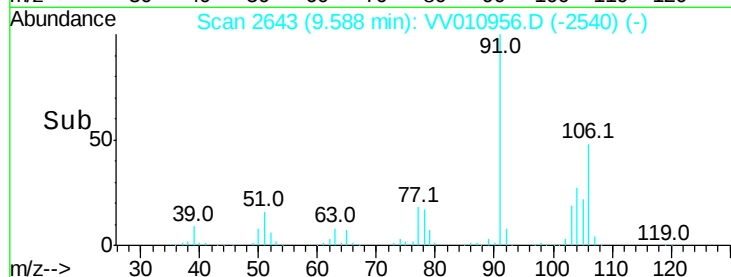
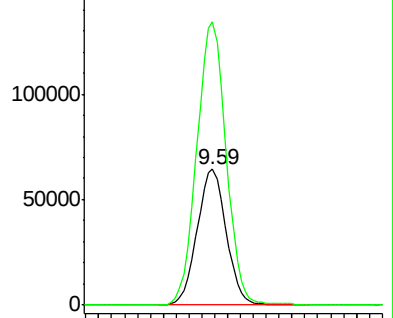
106 100

91 208.4 146.9 272.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 25.909 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. 0.00 min

Lab File: VV010956.D

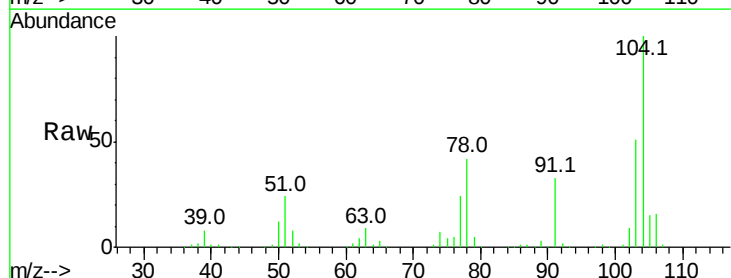
Acq: 20 May 2019 13:10

Tgt Ion:104 Resp: 175958

Ion Ratio Lower Upper

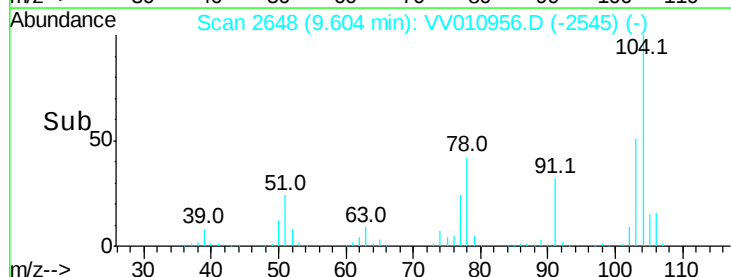
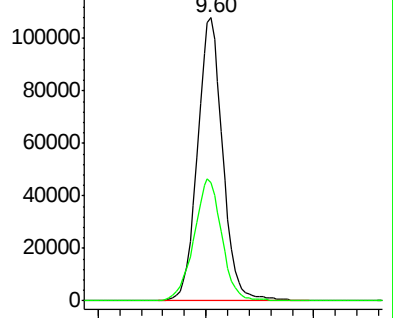
104 100

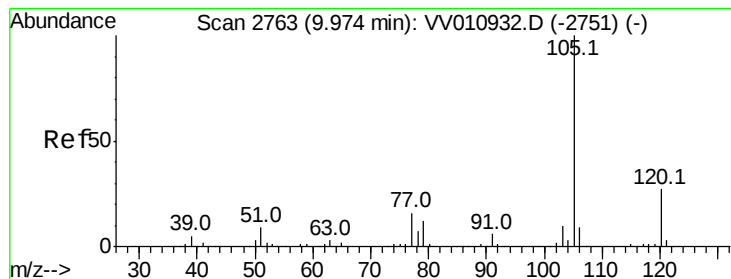
78 41.7 30.0 55.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 26.617 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV010956.D

Acq: 20 May 2019 13:10

Instrument :

MSVOA_V

ClientSampleId :

VSTD02567

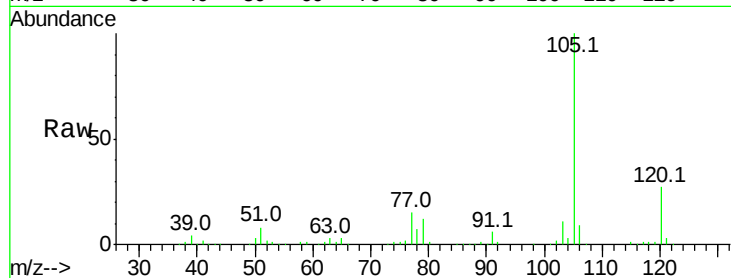
Tgt Ion:105 Resp: 263888

Ion Ratio Lower Upper

105 100

120 27.4 21.0 31.4

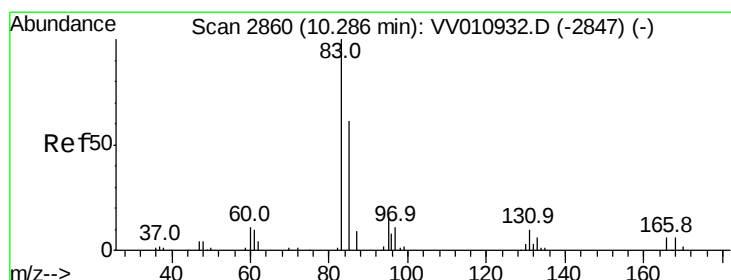
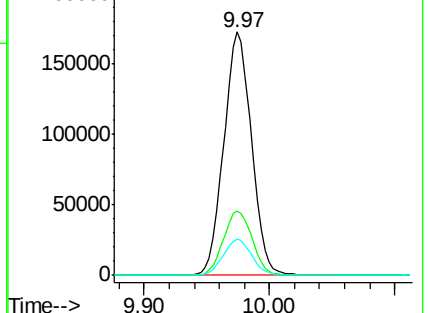
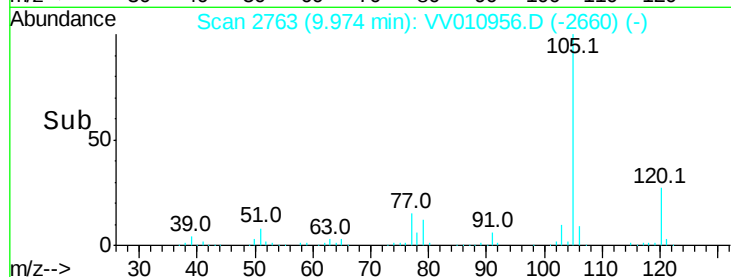
77 15.2 12.2 18.4



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: 24.728 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV010956.D

Acq: 20 May 2019 13:10

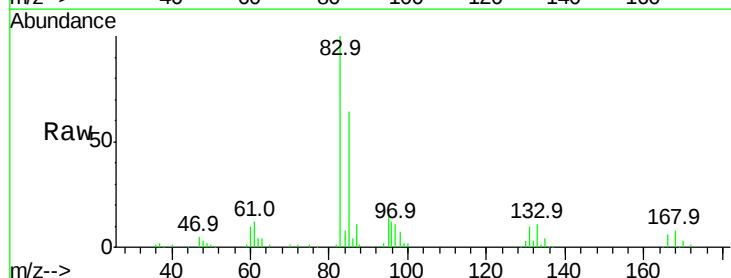
Tgt Ion: 83 Resp: 60187

Ion Ratio Lower Upper

83 100

85 63.5 46.7 86.7

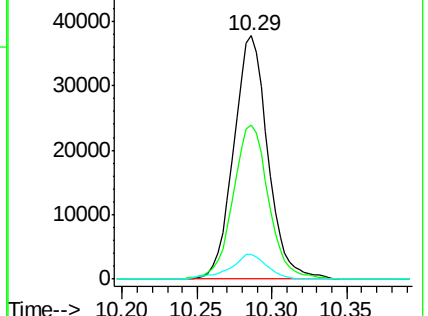
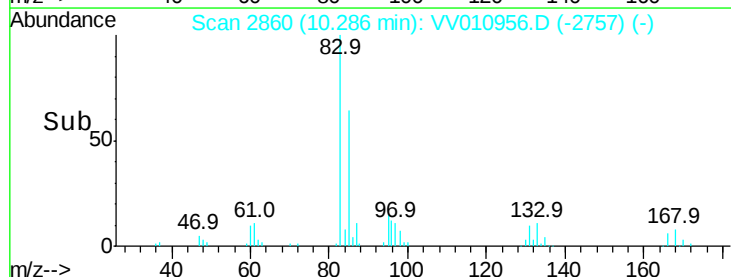
131 10.3 8.5 12.7

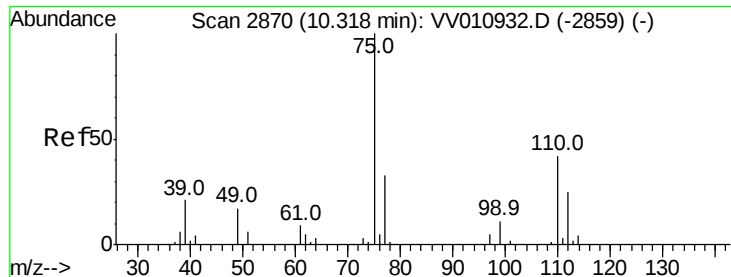


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V

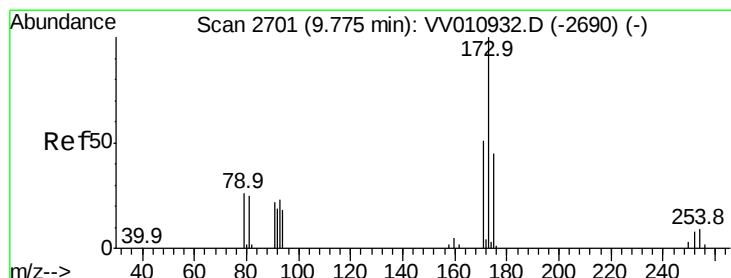
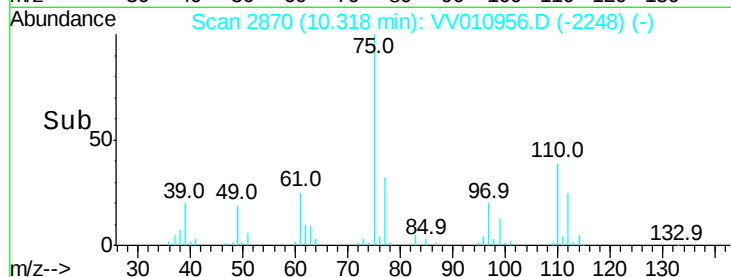
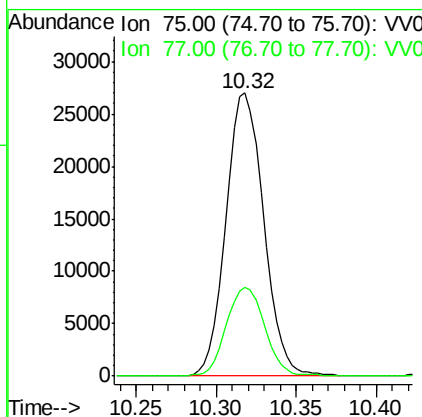
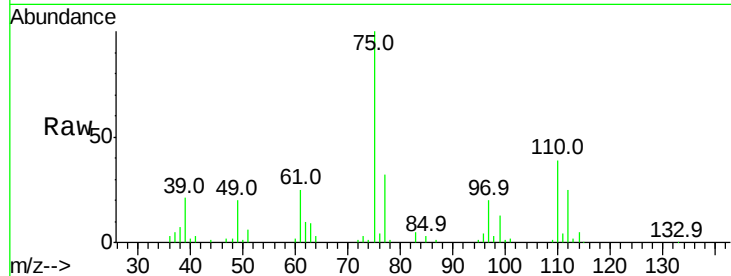




#59
 1,2,3-Trichloropropane
 Concen: 24.741 ug/L
 RT: 10.32 min Scan# 2870
 Delta R.T. 0.00 min
 Lab File: VV010956.D
 Acq: 20 May 2019 13:10

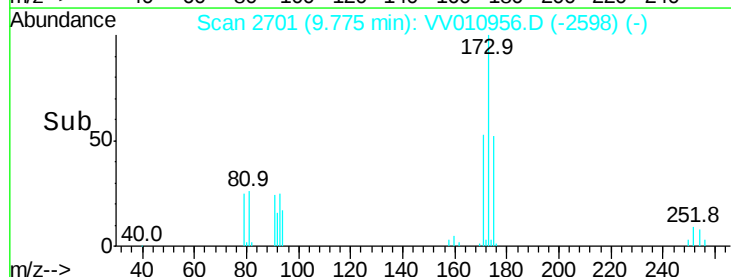
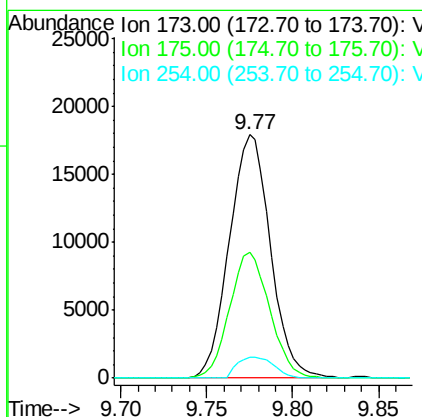
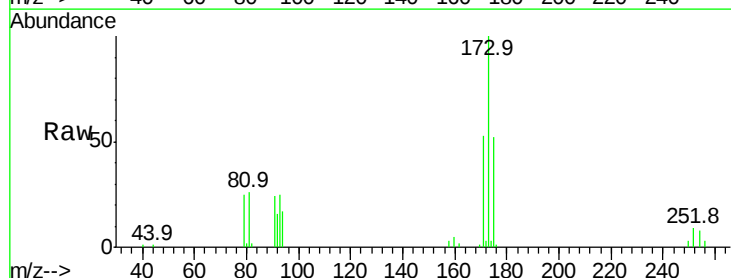
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02567

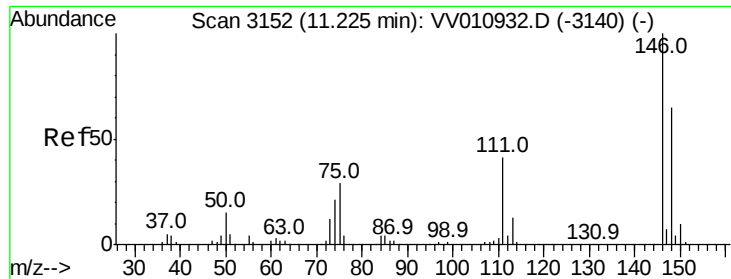
Tgt Ion: 75 Resp: 43632
 Ion Ratio Lower Upper
 75 100
 77 31.8 26.4 39.6



#62
 Bromoform
 Concen: 26.664 ug/L
 RT: 9.77 min Scan# 2701
 Delta R.T. 0.00 min
 Lab File: VV010956.D
 Acq: 20 May 2019 13:10

Tgt Ion: 173 Resp: 29773
 Ion Ratio Lower Upper
 173 100
 175 50.4 38.1 57.1
 254 7.6 5.4 8.2

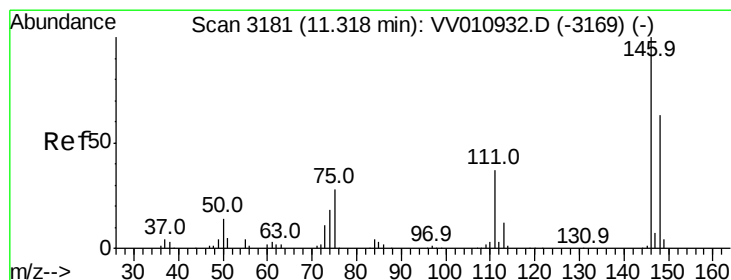
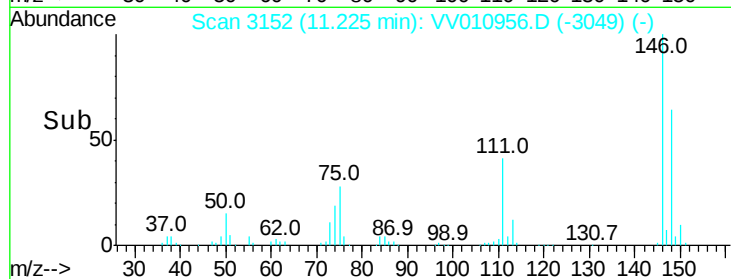
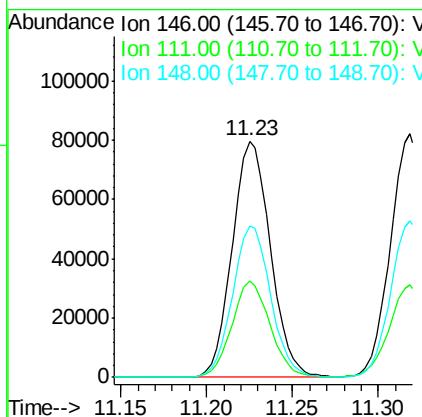
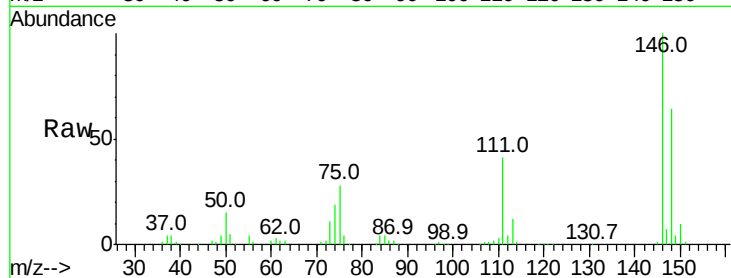




#63
 1,3-Dichlorobenzene
 Concen: 24.959 ug/L
 RT: 11.23 min Scan# 3152
 Delta R.T. 0.00 min
 Lab File: VV010956.D
 Acq: 20 May 2019 13:10

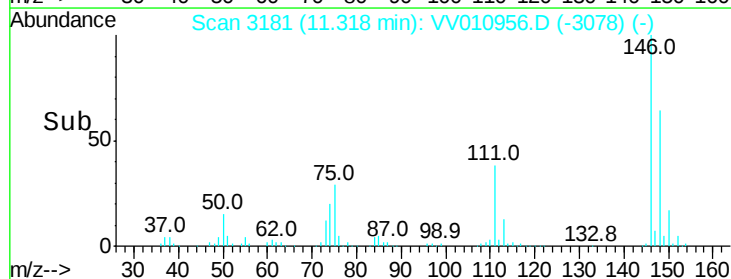
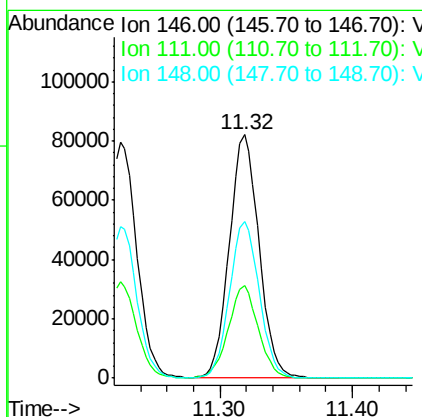
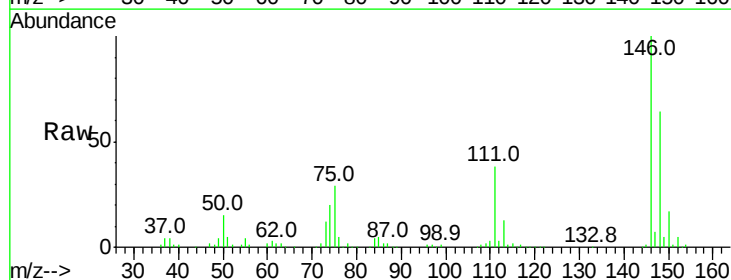
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02567

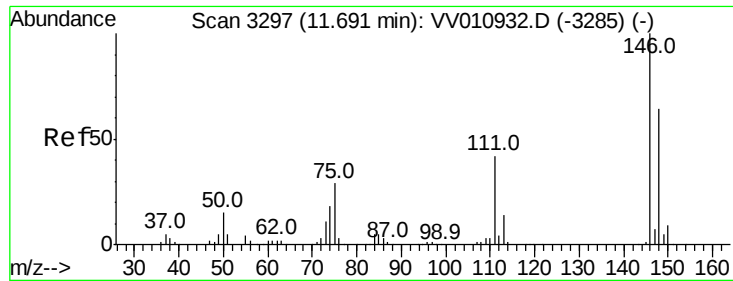
Tgt Ion:146 Resp: 123362
 Ion Ratio Lower Upper
 146 100
 111 40.6 28.1 52.1
 148 64.0 44.4 82.5



#64
 1,4-Dichlorobenzene
 Concen: 25.001 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: VV010956.D
 Acq: 20 May 2019 13:10

Tgt Ion:146 Resp: 128008
 Ion Ratio Lower Upper
 146 100
 111 37.8 27.9 51.7
 148 64.3 45.9 85.3





#65

1,2-Dichlorobenzene

Concen: 24.703 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV010956.D

Acq: 20 May 2019 13:10

Instrument :

MSVOA_V

ClientSampleId :

VSTD02567

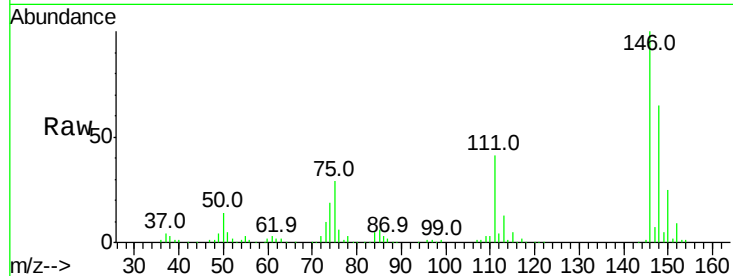
Tgt Ion:146 Resp: 121813

Ion Ratio Lower Upper

146 100

111 41.0 33.4 50.0

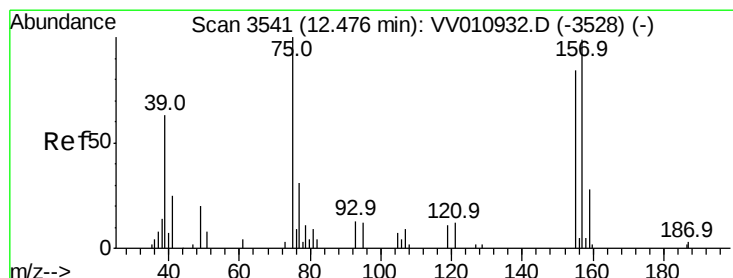
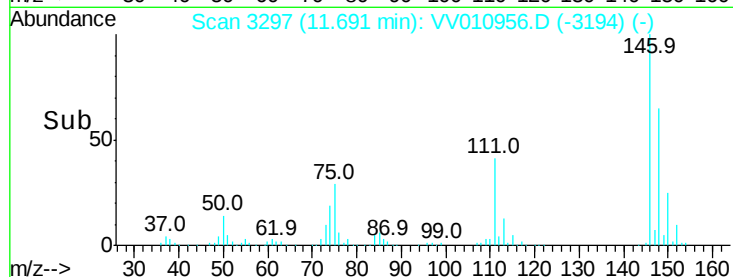
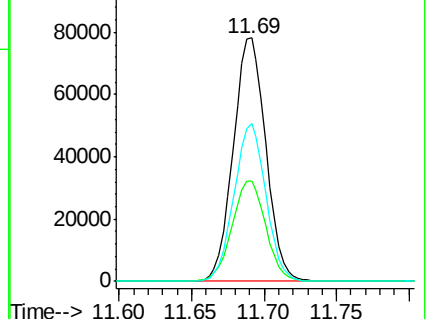
148 64.9 49.1 73.7



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: 24.796 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. 0.00 min

Lab File: VV010956.D

Acq: 20 May 2019 13:10

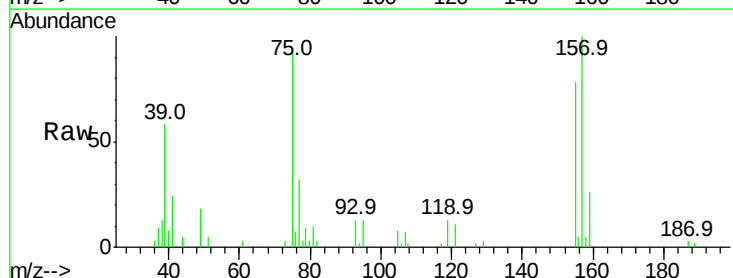
Tgt Ion: 75 Resp: 9157

Ion Ratio Lower Upper

75 100

157 108.7 97.6 146.4

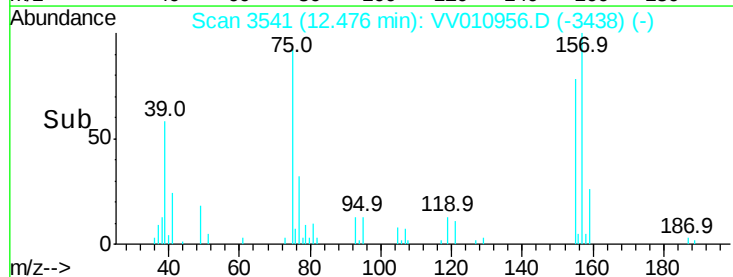
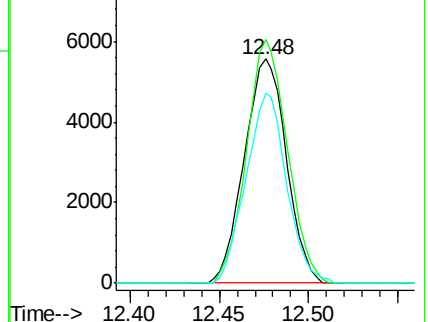
155 84.8 63.6 95.4

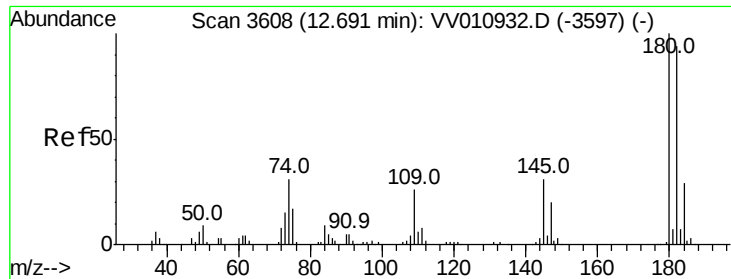


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

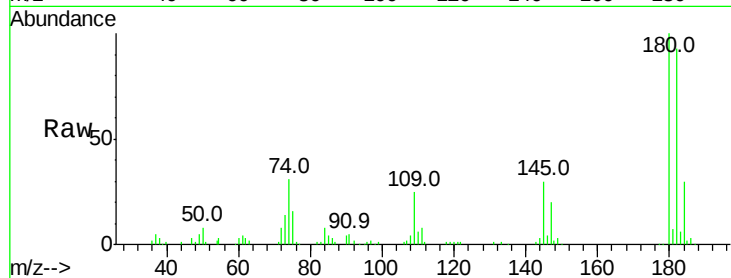




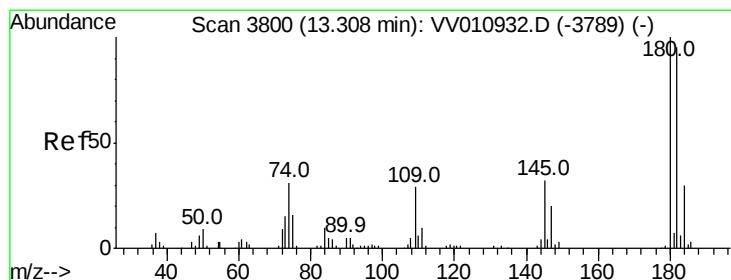
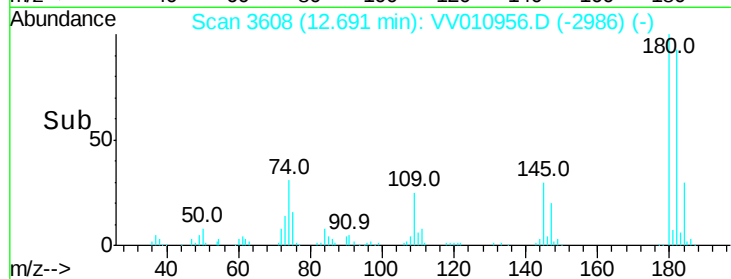
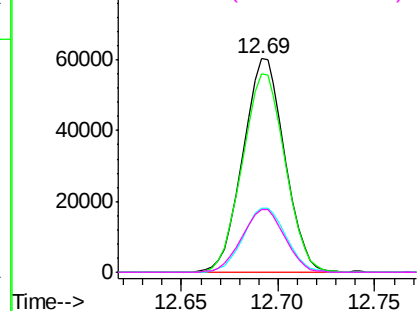
#67
 1,3,5-Trichlorobenzene
 Concen: 25.161 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV010956.D
 Acq: 20 May 2019 13:10

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02567

Tgt Ion:180 Resp: 90632
 Ion Ratio Lower Upper
 180 100
 182 95.2 75.9 113.9
 184 30.8 24.1 36.1
 145 30.1 25.4 38.0

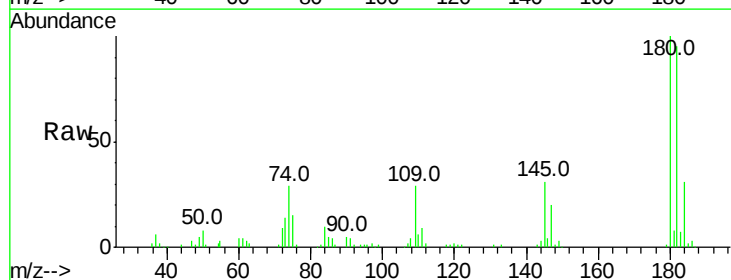


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

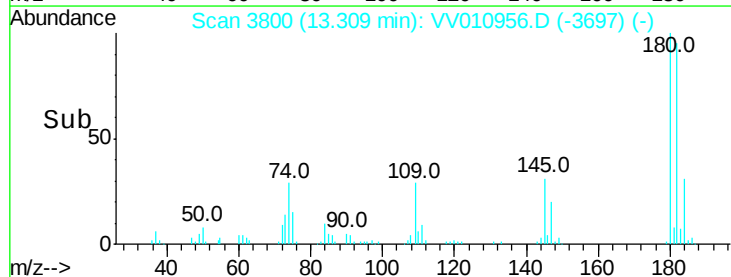
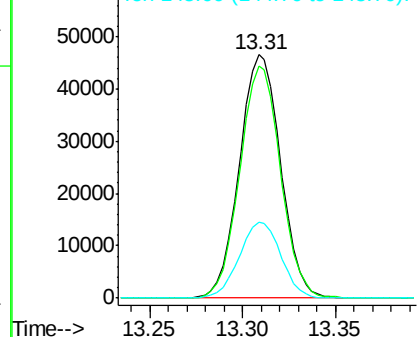


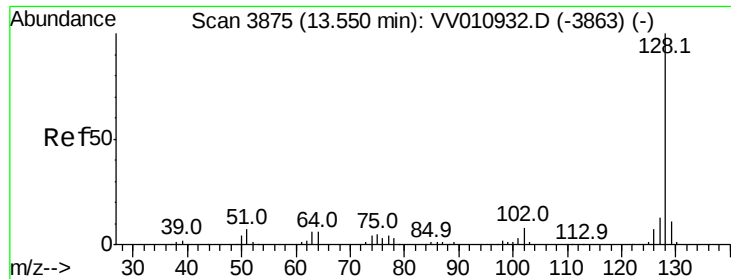
#68
 1,2,4-trichlorobenzene
 Concen: 24.722 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV010956.D
 Acq: 20 May 2019 13:10

Tgt Ion:180 Resp: 71904
 Ion Ratio Lower Upper
 180 100
 182 94.3 74.2 111.2
 145 31.4 25.4 38.0



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: 23.716 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. 0.00 min

Lab File: VV010956.D

Acq: 20 May 2019 13:10

Instrument :

MSVOA_V

ClientSampleId :

VSTD02567

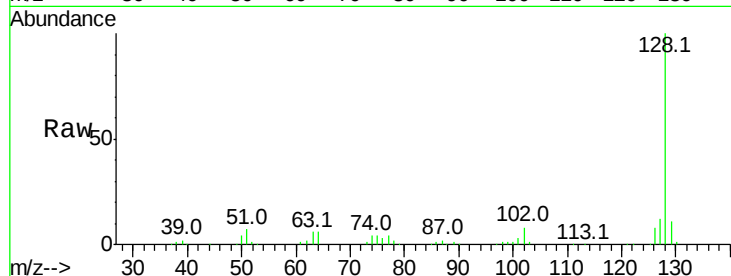
Tgt Ion:128 Resp: 144497

Ion Ratio Lower Upper

128 100

129 10.7 8.7 13.1

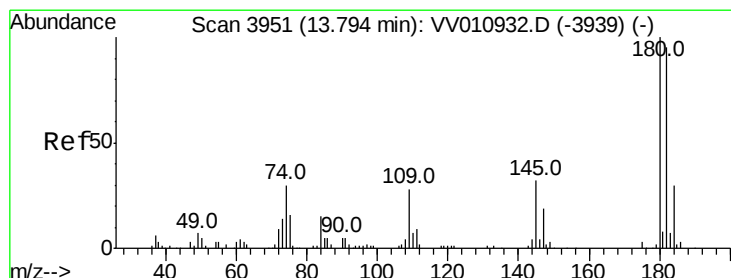
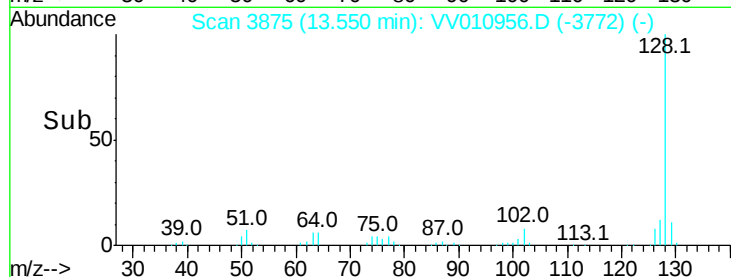
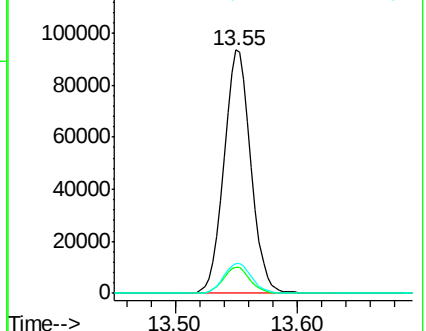
127 12.9 10.5 15.7



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: 25.537 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV010956.D

Acq: 20 May 2019 13:10

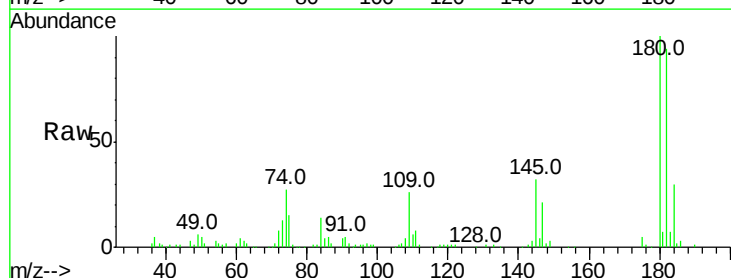
Tgt Ion:180 Resp: 70693

Ion Ratio Lower Upper

180 100

182 94.6 75.8 113.6

145 33.6 26.8 40.2



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

