

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV121220\
 Data File : VV019593.D
 Acq On : 13 Dec 2020 06:52
 Operator : SY/MD
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05086

Quant Time: Dec 13 09:19:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM121020WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sun Dec 13 07:40:15 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.62	114	583397	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.86	117	536419	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.25	152	250400	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	175059	41.85	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	83.70%
7) Chloroethane-d5	1.57	69	156356	47.39	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	94.78%
11) 1,1-Dichloroethene-d2	2.11	63	346574	44.64	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	89.28%
21) 2-Butanone-d5	3.90	46	276319	121.52	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	121.52%
24) Chloroform-d	4.35	84	379690	50.36	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.72%
26) 1,2-Dichloroethane-d4	5.04	65	260361	52.84	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	105.68%
32) Benzene-d6	5.05	84	685510	47.92	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.84%
36) 1,2-Dichloropropane-d6	6.07	67	231263	51.60	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	103.20%
41) Toluene-d8	7.32	98	580779	45.09	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.18%
43) trans-1,3-Dichloropropene-	7.62	79	115421	45.28	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.56%
47) 2-Hexanone-d5	8.09	63	202139	114.92	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	114.92%
57) 1,1,2,2-Tetrachloroethane-	10.22	84	331455	54.68	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	109.36%
64) 1,2-Dichlorobenzene-d4	11.63	152	225578	48.19	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.38%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.13	85	210615	44.735	ug/L 99
3) Chloromethane	1.24	50	268161	53.585	ug/L 99
5) Vinyl chloride	1.31	62	253629	50.527	ug/L 99
6) Bromomethane	1.52	94	160800	53.342	ug/L 99
8) Chloroethane	1.59	64	161595	53.371	ug/L 99
9) Trichlorofluoromethane	1.76	101	284169	46.335	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.12	101	148254	43.773	ug/L 98
12) 1,1-Dichloroethene	2.12	96	169619	48.804	ug/L 86
13) Acetone	2.19	43	231625	119.573	ug/L 100
14) Carbon disulfide	2.30	76	505418	44.258	ug/L 100
15) Methyl Acetate	2.44	43	252042	59.720	ug/L 100
16) Methylene chloride	2.51	84	221324	54.314	ug/L 98
17) trans-1,2-Dichloroethene	2.76	96	190026	49.883	ug/L 100
18) Methyl tert-butyl Ether	2.77	73	736685	55.343	ug/L 99
19) 1,1-Dichloroethane	3.19	63	393008	53.214	ug/L 99
20) cis-1,2-Dichloroethene	3.92	96	219902	52.511	ug/L # 97
22) 2-Butanone	3.98	43	360995	127.046	ug/L 98

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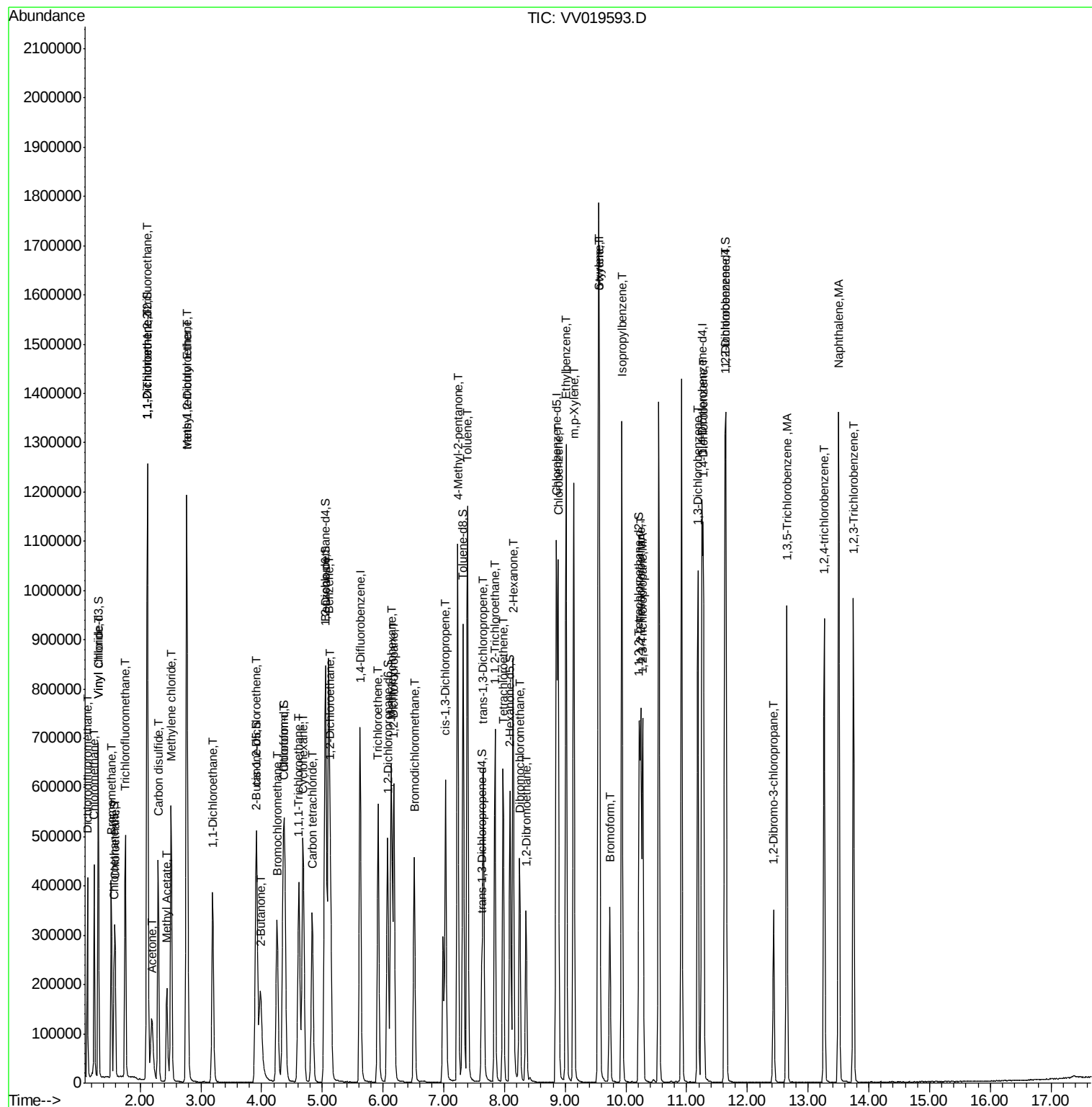
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.25	128	109477	53.132	ug/L	99
25) Chloroform	4.38	83	395082	53.563	ug/L	100
27) 1,2-Dichloroethane	5.14	62	341514	55.888	ug/L	99
29) Cyclohexane	4.68	56	281417	42.805	ug/L	99
30) 1,1,1-Trichloroethane	4.61	97	327737	48.727	ug/L	99
31) Carbon tetrachloride	4.83	117	255699	45.033	ug/L	99
33) Benzene	5.10	78	817567	52.150	ug/L	100
34) Trichloroethene	5.92	95	200300	48.366	ug/L	99
35) Methylcyclohexane	6.14	83	267651	42.542	ug/L	100
37) 1,2-Dichloropropane	6.18	63	226913	55.425	ug/L	100
38) Bromodichloromethane	6.51	83	303775	53.062	ug/L	99
39) cis-1,3-Dichloropropene	7.03	75	350718	51.578	ug/L	98
40) 4-Methyl-2-pentanone	7.23	43	710868	120.351	ug/L	99
42) Toluene	7.39	91	808103	48.907	ug/L	100
44) trans-1,3-Dichloropropene	7.65	75	340268	49.421	ug/L	98
45) 1,1,2-Trichloroethane	7.84	97	214654	55.211	ug/L	99
46) Tetrachloroethene	7.98	164	126464	44.132	ug/L	96
48) 2-Hexanone	8.14	43	541008	120.712	ug/L	98
49) Dibromochloromethane	8.25	129	221354	51.989	ug/L	100
50) 1,2-Dibromoethane	8.35	107	223824	54.670	ug/L	99
51) Chlorobenzene	8.88	112	514543	48.757	ug/L	100
52) Ethylbenzene	9.02	91	881313	46.815	ug/L	100
53) m,p-Xylene	9.14	106	324490	46.137	ug/L	98
54) o-xylene	9.55	106	331764	48.126	ug/L	98
55) Styrene	9.56	104	584624	48.658	ug/L	99
56) Isopropylbenzene	9.93	105	832517	45.331	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.24	83	348685	55.770	ug/L	99
59) 1,2,3-Trichloropropane	10.28	75	293472	57.629	ug/L	100
61) Bromoform	9.73	173	145121	52.378	ug/L	99
62) 1,3-Dichlorobenzene	11.18	146	372590	48.498	ug/L	99
63) 1,4-Dichlorobenzene	11.28	146	376311	48.372	ug/L	99
65) 1,2-Dichlorobenzene	11.65	146	390019	51.377	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.43	75	90617	57.185	ug/L	90
67) 1,3,5-Trichlorobenzene	12.65	180	260279	47.952	ug/L	99
68) 1,2,4-trichlorobenzene	13.26	180	246882	48.645	ug/L	100
69) Naphthalene	13.50	128	983798	55.827	ug/L	100
70) 1,2,3-Trichlorobenzene	13.75	180	258311	52.083	ug/L	99

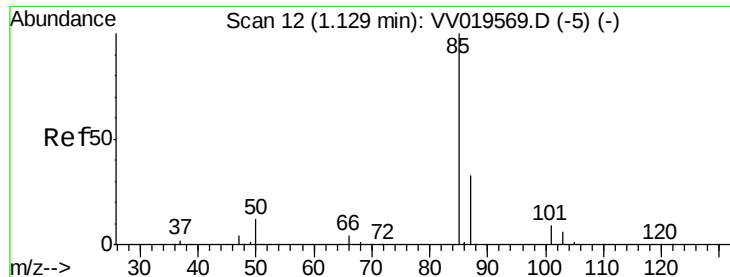
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 44.735 ug/L

RT: 1.13 min Scan# 12

Delta R.T. 0.00 min

Lab File: VV019593.D

Acq: 13 Dec 2020 06:52

Instrument :

MSVOA_V

ClientSampleId :

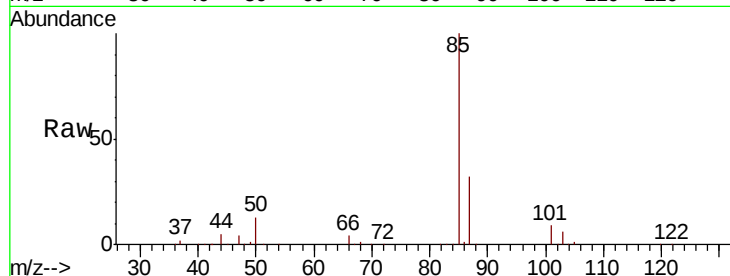
VSTD05086

Tot Ion: 85 Resp: 210615

Ion Ratio Lower Upper

85 100

87 31.7 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VV019569.D (-5) (-)

Ion 87.00 (86.70 to 87.70): VV019569.D (-5) (-)

1.13

250000

200000

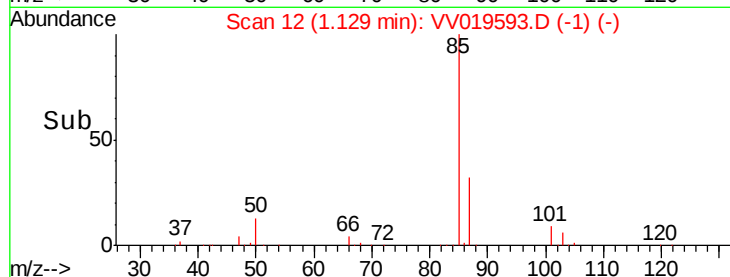
150000

100000

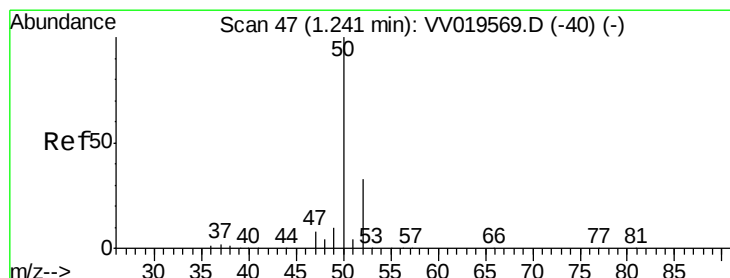
50000

0

Time-->



Time-->



#3

Chloromethane

Concen: 53.585 ug/L

RT: 1.24 min Scan# 47

Delta R.T. 0.00 min

Lab File: VV019593.D

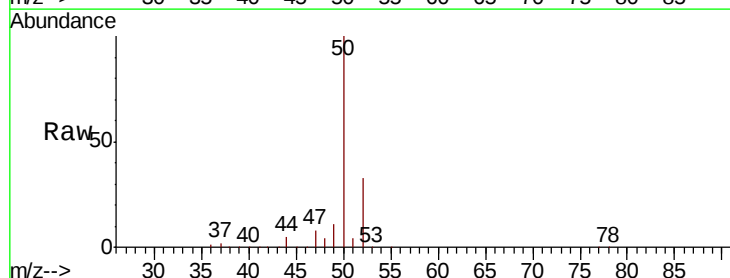
Acq: 13 Dec 2020 06:52

Tgt Ion: 50 Resp: 268161

Ion Ratio Lower Upper

50 100

52 32.7 23.2 43.0



Abundance Ion 50.00 (49.70 to 50.70): VV019569.D (-40) (-)

Ion 52.00 (51.70 to 52.70): VV019569.D (-40) (-)

1.24

300000

250000

200000

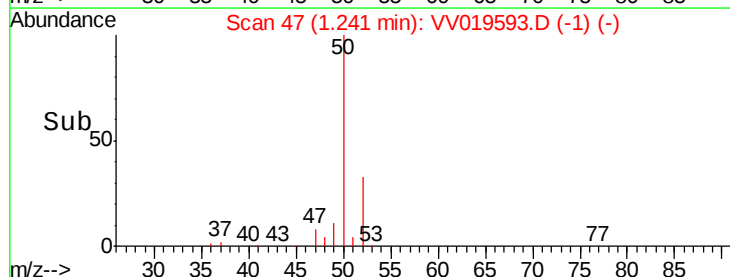
150000

100000

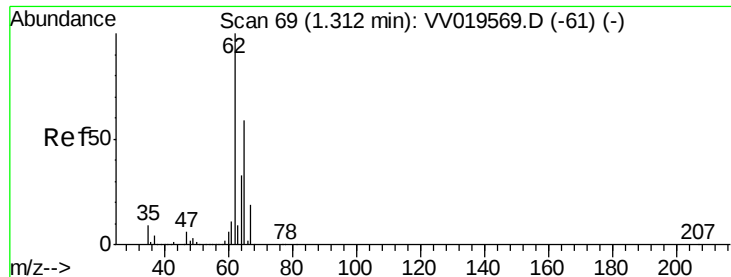
50000

0

Time-->



Time-->



#5

Vinyl chloride

Concen: 50.527 ug/L

RT: 1.31 min Scan# 69

Delta R.T. 0.00 min

Lab File: VV019593.D

Acq: 13 Dec 2020 06:52

Instrument :

MSVOA_V

ClientSampleId :

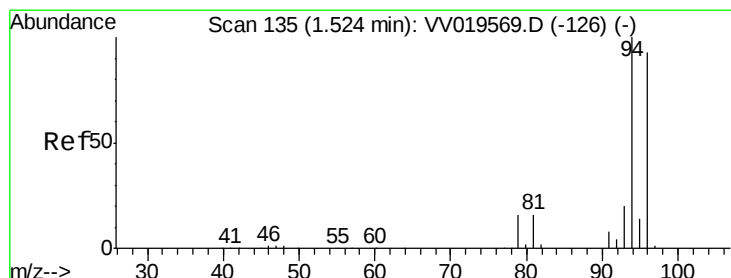
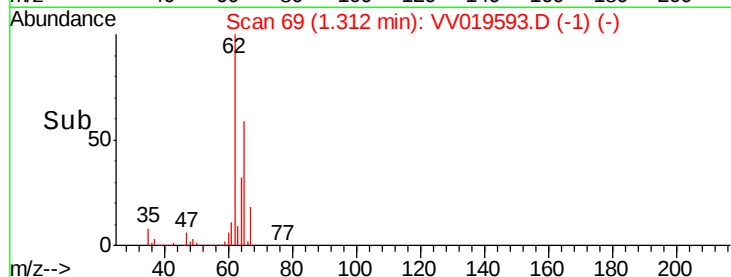
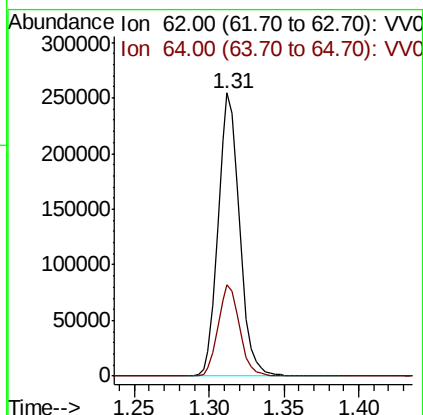
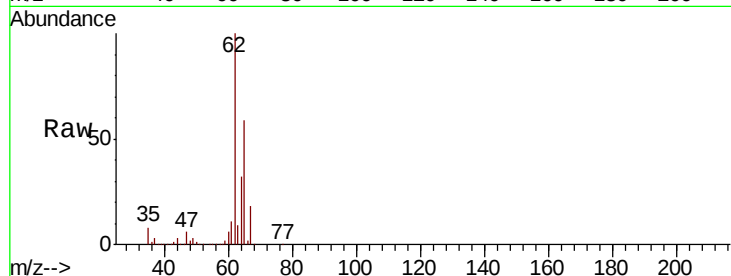
VSTD05086

Tot Ion: 62 Resp: 253629

Ion Ratio Lower Upper

62 100

64 32.4 22.5 41.7



#6

Bromomethane

Concen: 53.342 ug/L

RT: 1.52 min Scan# 135

Delta R.T. 0.00 min

Lab File: VV019593.D

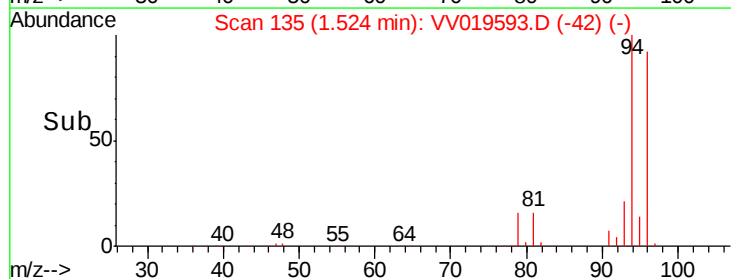
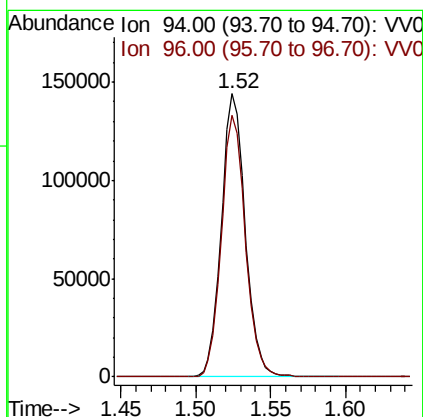
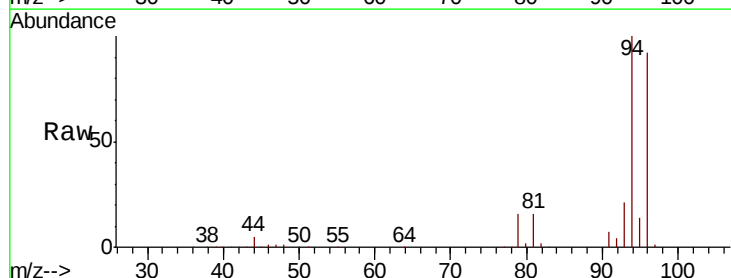
Acq: 13 Dec 2020 06:52

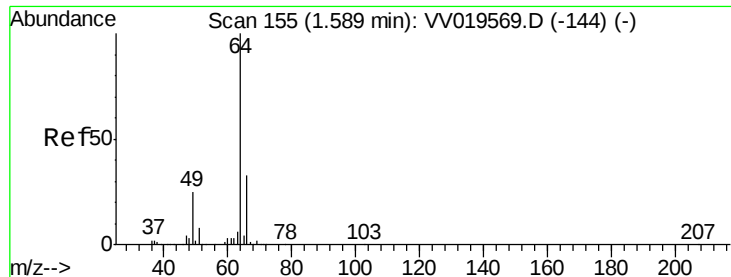
Tgt Ion: 94 Resp: 160800

Ion Ratio Lower Upper

94 100

96 92.4 65.2 121.2





#8

Chloroethane

Concen: 53.371 ug/L

RT: 1.59 min Scan# 155

Delta R.T. 0.00 min

Lab File: VV019593.D

Acq: 13 Dec 2020 06:52

Instrument :

MSVOA_V

ClientSampleId :

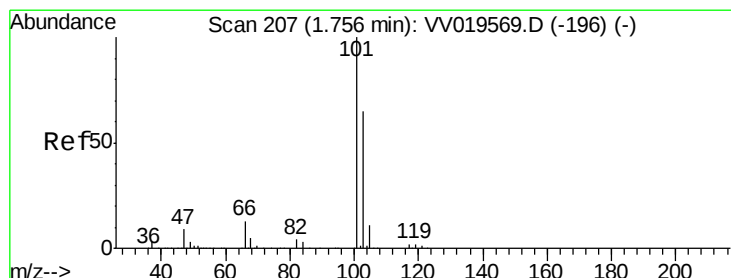
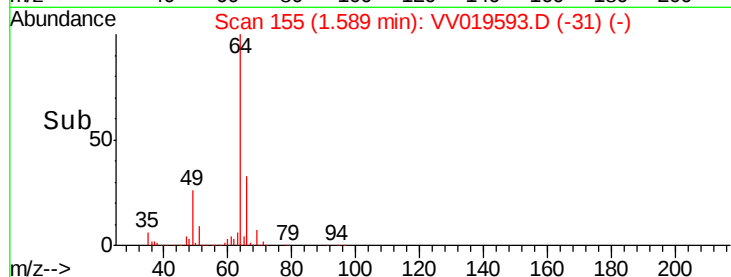
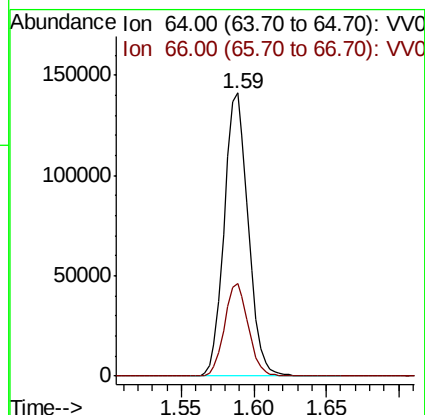
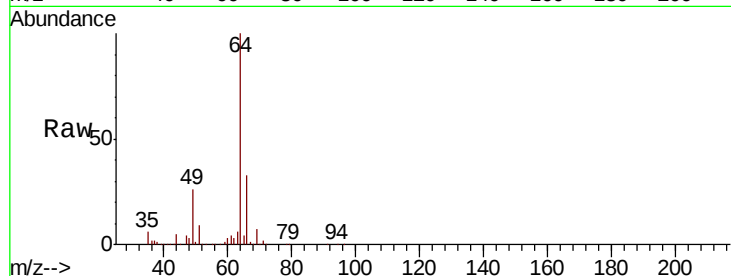
VSTD05086

Tot Ion: 64 Resp: 161595

Ion Ratio Lower Upper

64 100

66 32.8 22.5 41.7



#9

Trichlorofluoromethane

Concen: 46.335 ug/L

RT: 1.76 min Scan# 207

Delta R.T. 0.00 min

Lab File: VV019593.D

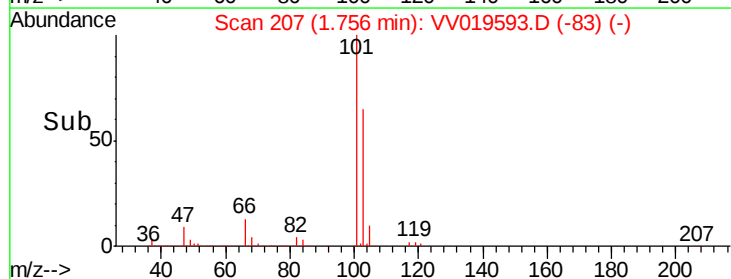
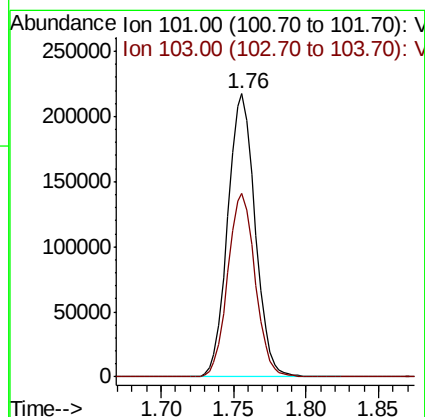
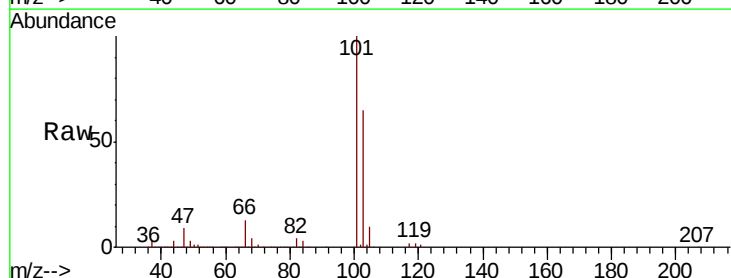
Acq: 13 Dec 2020 06:52

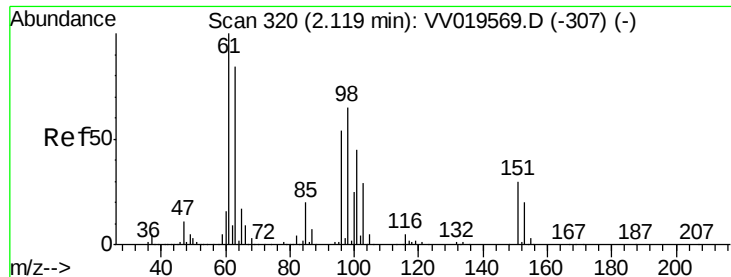
Tgt Ion: 101 Resp: 284169

Ion Ratio Lower Upper

101 100

103 64.8 51.6 77.4





#10

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

Concen: 43.773 ug/L

RT: 2.12 min Scan# 320

Delta R.T. 0.00 min

Lab File: VV019593.D

Acq: 13 Dec 2020 06:52

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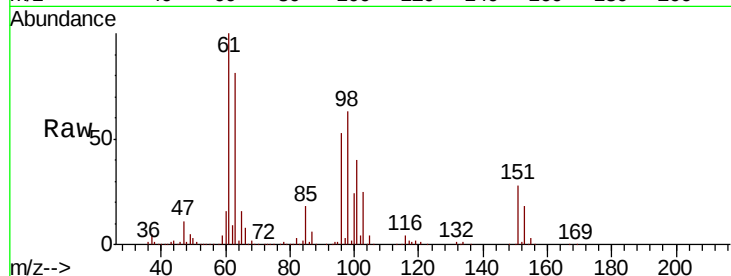
Tot Ion:101 Resp: 148254

Ion Ratio Lower Upper

101 100

85 44.0 35.0 52.4

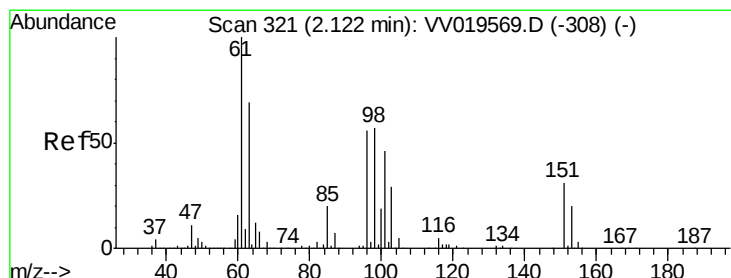
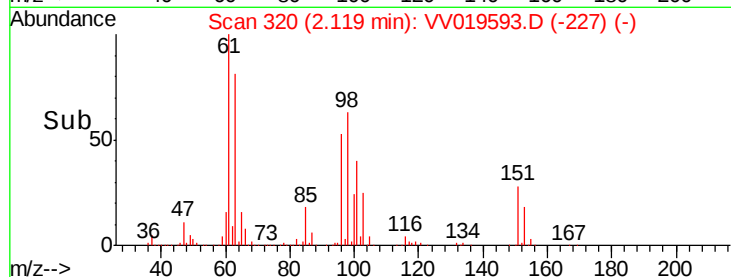
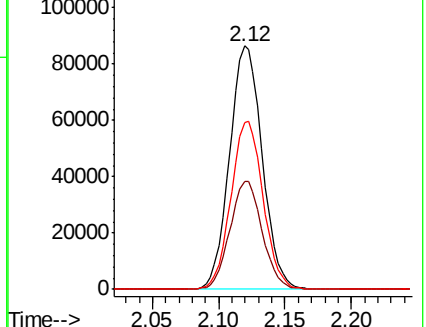
151 67.9 55.8 83.8



Abundance Ion 101.00 (100.70 to 101.70): VV019569.D (-307) (-)

Ion 85.00 (84.70 to 85.70): VV019569.D (-307) (-)

Ion 151.00 (150.70 to 151.70): VV019569.D (-307) (-)



#12

1,1-Dichloroethene

Concen: 48.804 ug/L

RT: 2.12 min Scan# 321

Delta R.T. 0.00 min

Lab File: VV019593.D

Acq: 13 Dec 2020 06:52

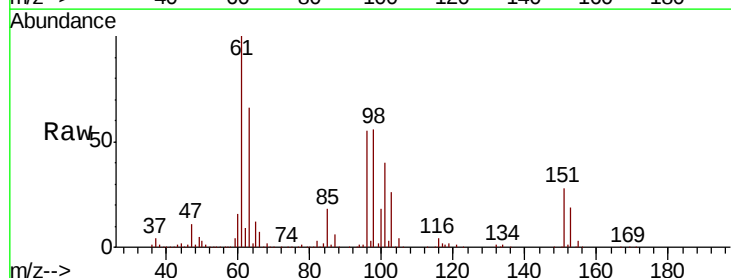
Tgt Ion: 96 Resp: 169619

Ion Ratio Lower Upper

96 100

61 180.9 120.7 224.1

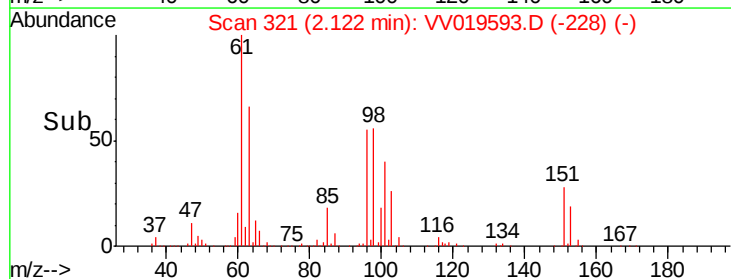
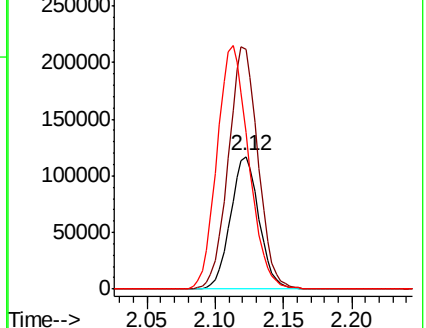
63 118.8 64.3 119.5

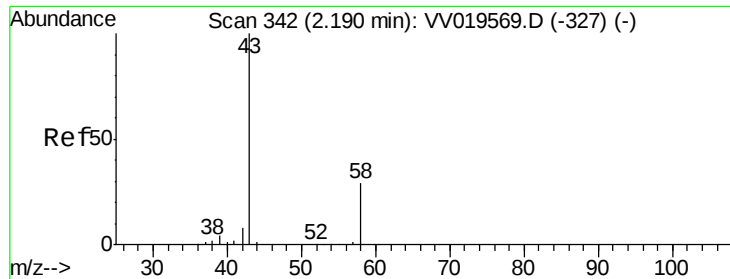


Abundance Ion 96.00 (95.70 to 96.70): VV019569.D (-308) (-)

Ion 61.00 (60.70 to 61.70): VV019569.D (-308) (-)

Ion 63.00 (62.70 to 63.70): VV019569.D (-308) (-)





#13

Acetone

Concen: 119.573 ug/L

RT: 2.19 min Scan# 343

Delta R.T. 0.00 min

Lab File: VV019593.D

Acq: 13 Dec 2020 06:52

Instrument :

MSVOA_V

ClientSampleId :

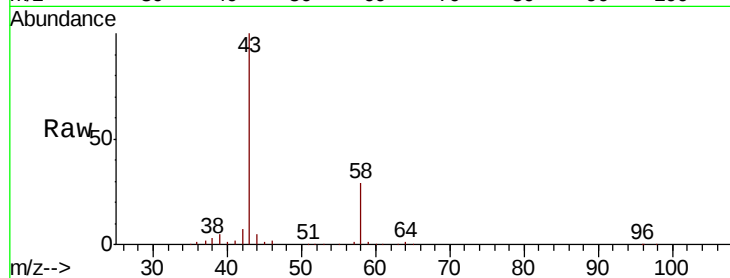
VSTD05086

Tot Ion: 43 Resp: 231625

Ion Ratio Lower Upper

43 100

58 30.5 0.0 61.6



Abundance Ion 43.00 (42.70 to 43.70): VV019569.D (-327) (-)

Ion 58.00 (57.70 to 58.70): VV019569.D (-327) (-)

80000

60000

40000

20000

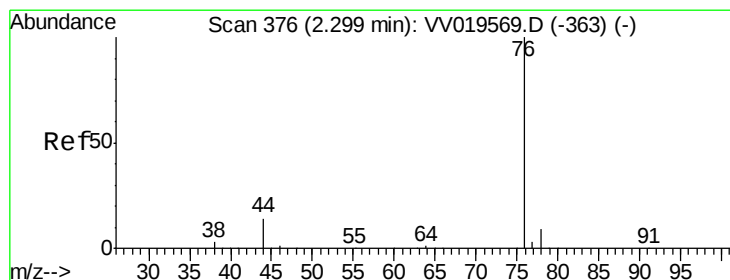
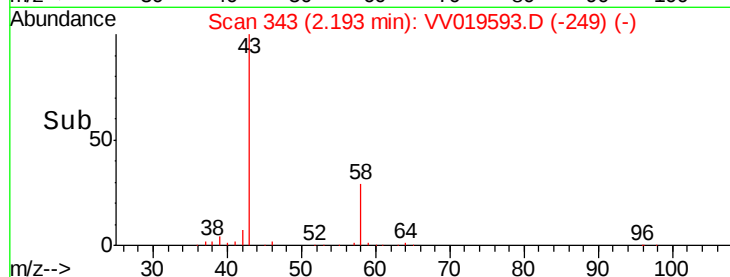
0

2.10

2.20

2.30

Time-->



#14

Carbon disulfide

Concen: 44.258 ug/L

RT: 2.30 min Scan# 375

Delta R.T. -0.00 min

Lab File: VV019593.D

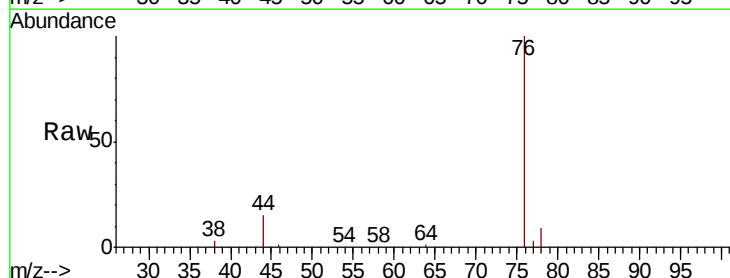
Acq: 13 Dec 2020 06:52

Tgt Ion: 76 Resp: 505418

Ion Ratio Lower Upper

76 100

78 9.1 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VV019569.D (-363) (-)

Ion 78.00 (77.70 to 78.70): VV019569.D (-363) (-)

400000

300000

200000

100000

0

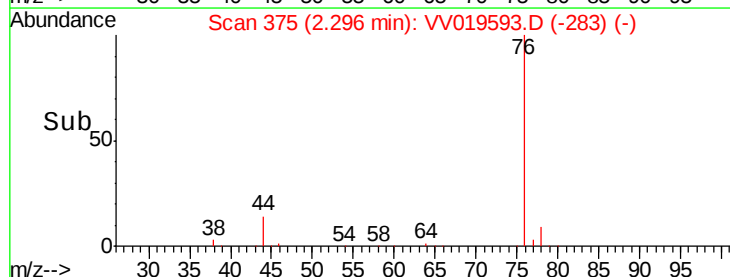
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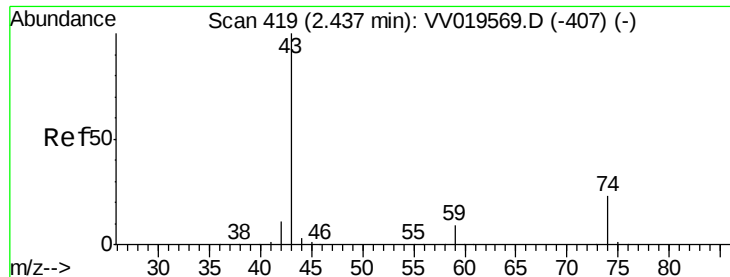
2.30

2.35

2.40

Time-->

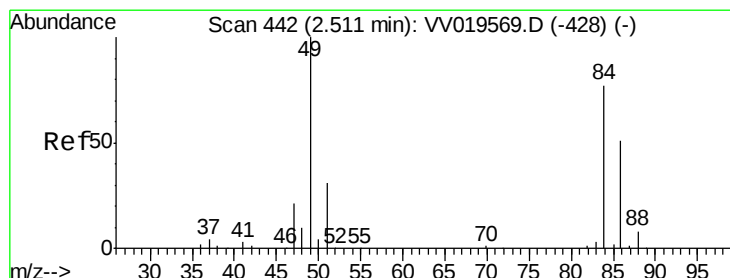
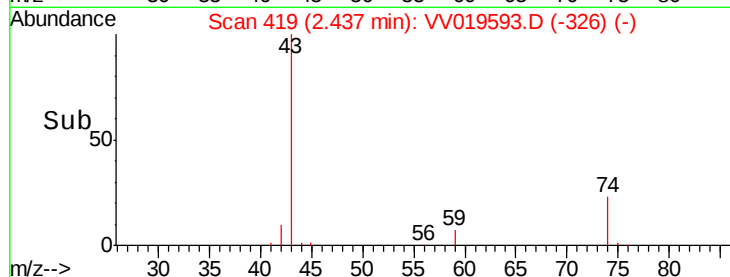
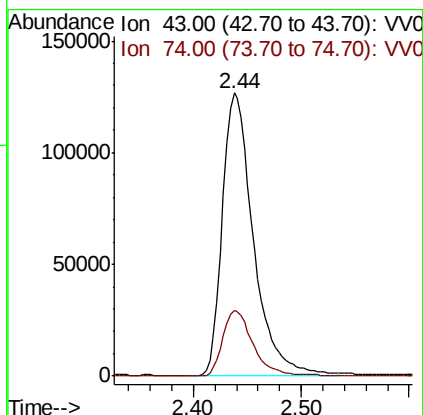
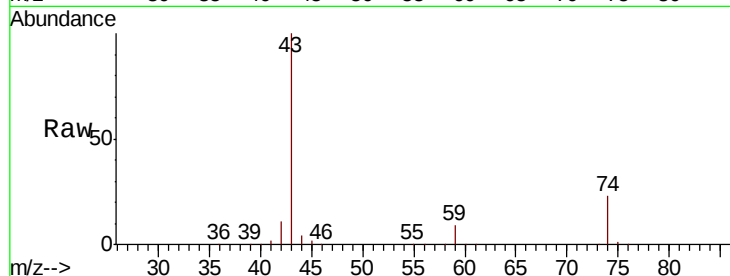




#15
Methvl Acetate
Concen: 59.720 ug/L
RT: 2.44 min Scan# 419
Delta R.T. 0.00 min
Lab File: VV019593.D
Acq: 13 Dec 2020 06:52

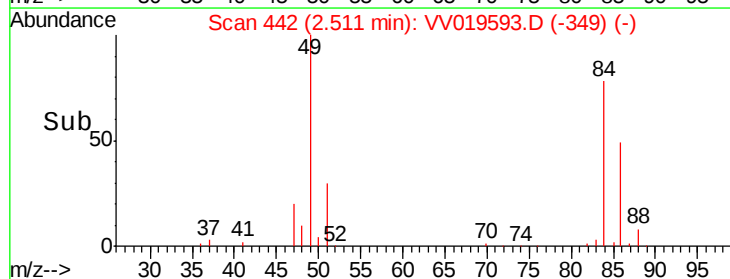
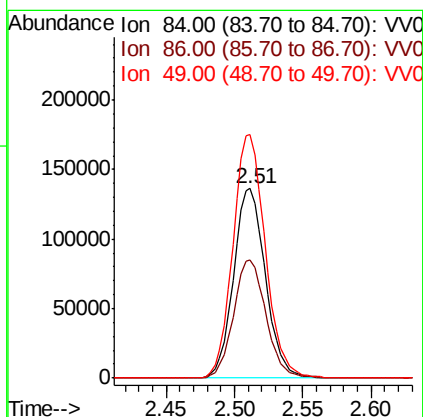
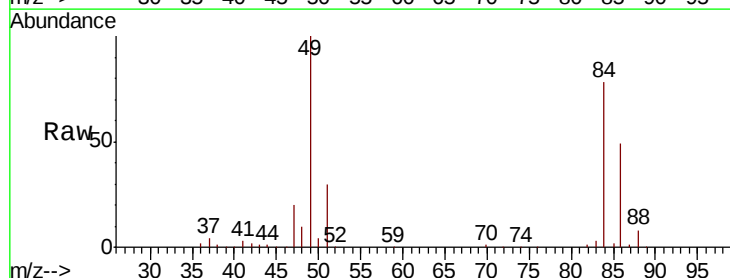
Instrument :
MSVOA_V
ClientSampled :
VSTD05086

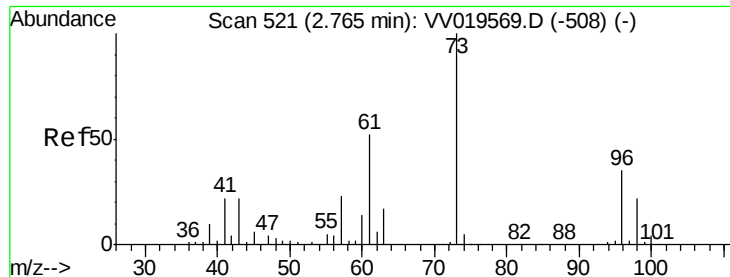
Tot Ion: 43 Resp: 252042
Ion Ratio Lower Upper
43 100
74 22.6 18.2 27.4



#16
Methylene chloride
Concen: 54.314 ug/L
RT: 2.51 min Scan# 442
Delta R.T. 0.00 min
Lab File: VV019593.D
Acq: 13 Dec 2020 06:52

Tgt Ion: 84 Resp: 221324
Ion Ratio Lower Upper
84 100
86 62.5 45.7 84.9
49 128.6 90.6 168.3





#17

trans-1,2-Dichloroethene

Concen: 49.883 ug/L

RT: 2.76 min Scan# 520

Delta R.T. -0.00 min

Lab File: VV019593.D

Acq: 13 Dec 2020 06:52

Instrument :

MSVOA_V

ClientSampleId :

VSTD05086

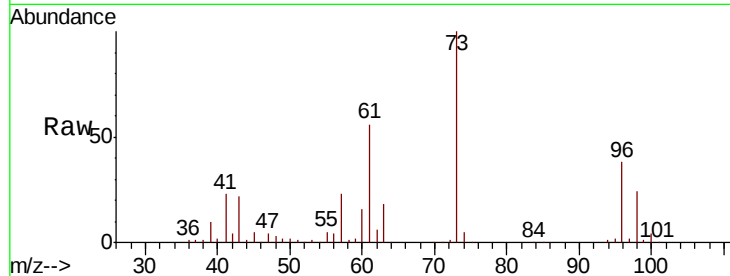
Tot Ion: 96 Resp: 190026

Ion Ratio Lower Upper

96 100

61 148.1 103.5 192.1

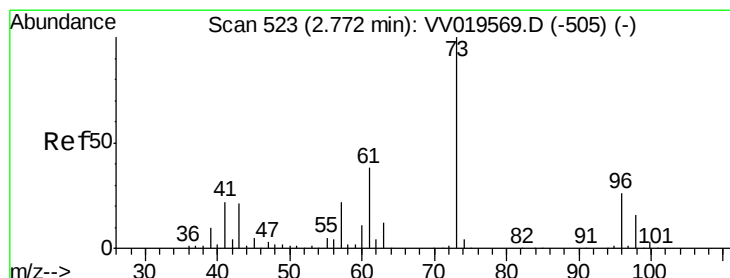
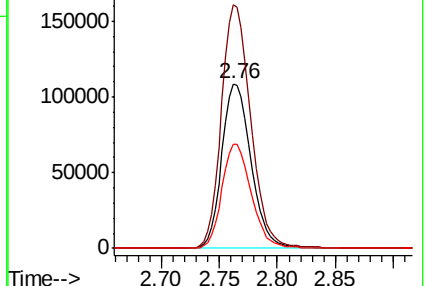
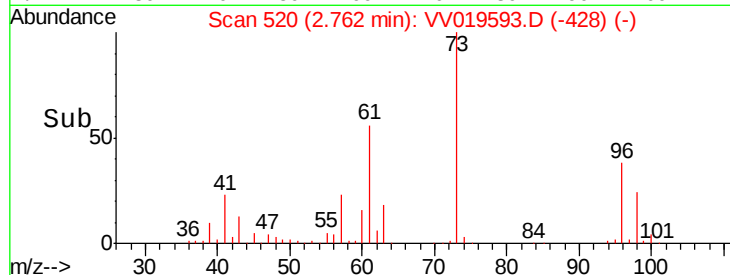
98 63.1 44.4 82.5



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



#18

Methyl tert-butyl Ether

Concen: 55.343 ug/L

RT: 2.77 min Scan# 523

Delta R.T. 0.00 min

Lab File: VV019593.D

Acq: 13 Dec 2020 06:52

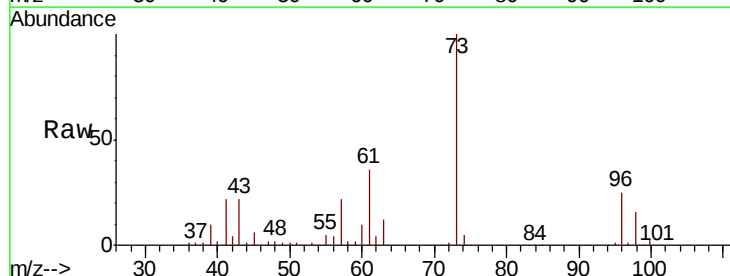
Tgt Ion: 73 Resp: 736685

Ion Ratio Lower Upper

73 100

43 21.2 17.3 25.9

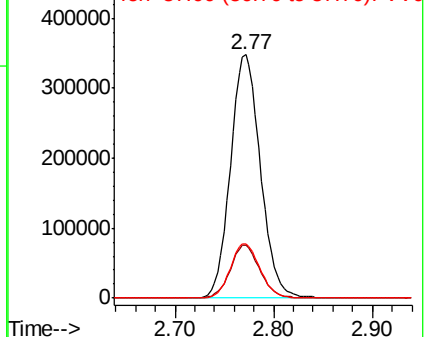
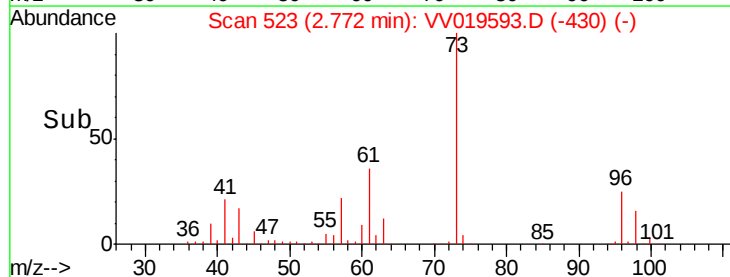
57 22.1 17.5 26.3

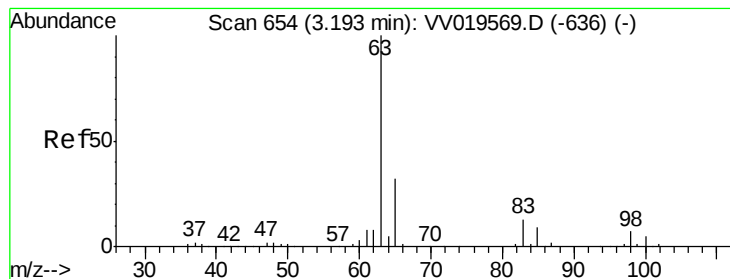


Abundance Ion 73.00 (72.70 to 73.70): VV0

Ion 43.00 (42.70 to 43.70): VV0

Ion 57.00 (56.70 to 57.70): VV0





#19

1,1-Dichloroethane

Concen: 53.214 ug/L

RT: 3.19 min Scan# 654

Delta R.T. 0.00 min

Lab File: VV019593.D

Acq: 13 Dec 2020 06:52

Instrument :

MSVOA_V

ClientSampleId :

VSTD05086

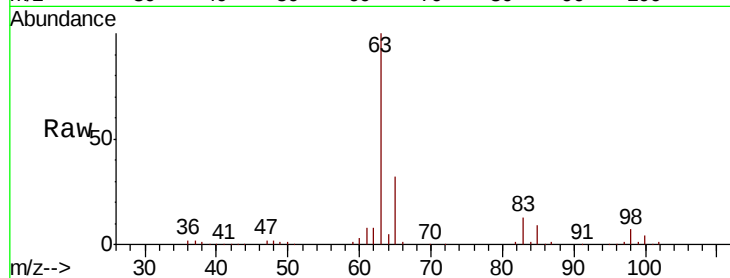
Tot Ion: 63 Resp: 393008

Ion Ratio Lower Upper

63 100

65 32.3 22.4 41.6

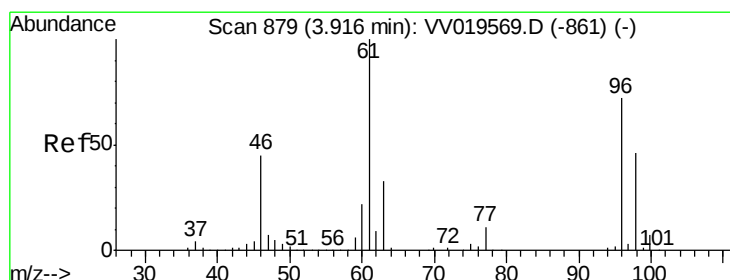
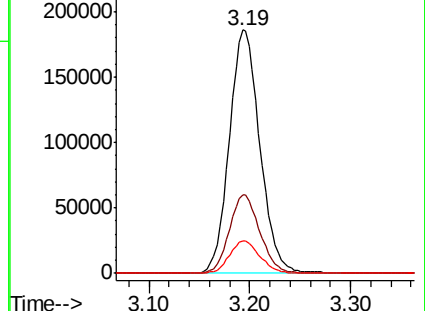
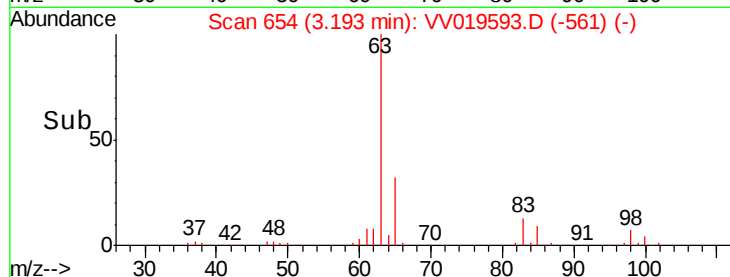
83 13.4 9.6 17.8



Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 65.00 (64.70 to 65.70): VV0

Ion 83.00 (82.70 to 83.70): VV0



#20

cis-1,2-Dichloroethene

Concen: 52.511 ug/L

RT: 3.92 min Scan# 879

Delta R.T. 0.00 min

Lab File: VV019593.D

Acq: 13 Dec 2020 06:52

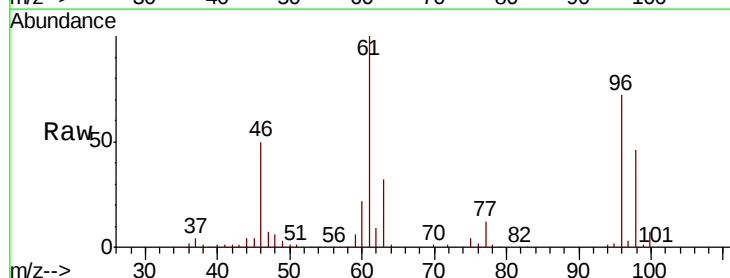
Tgt Ion: 96 Resp: 219902

Ion Ratio Lower Upper

96 100

61 138.4 94.1 174.8

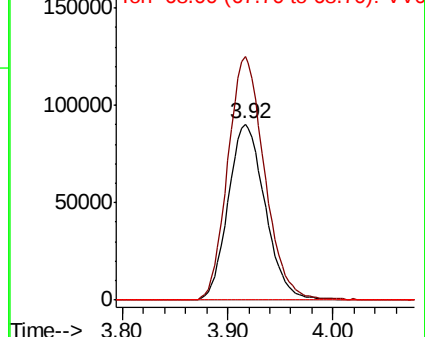
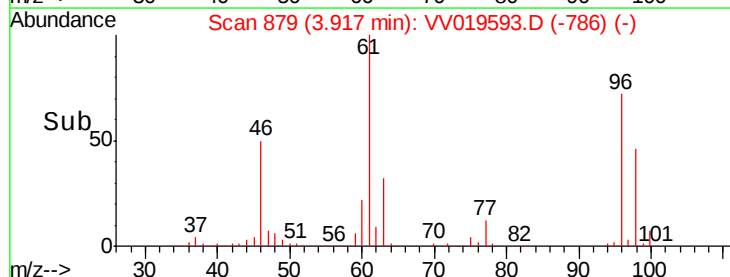
68 0.0 0.1 0.1#

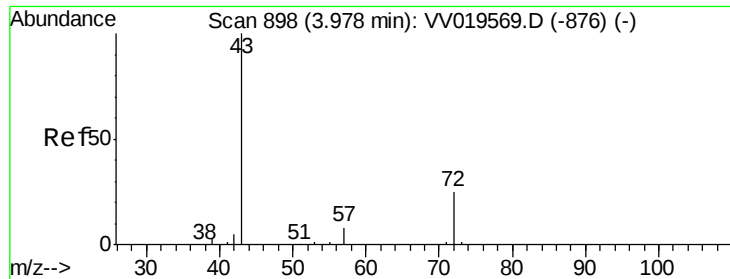


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 68.00 (67.70 to 68.70): VV0





#22

2-Butanone

Concen: 127.046 ug/L

RT: 3.98 min Scan# 899

Delta R.T. 0.00 min

Lab File: VV019593.D

Acq: 13 Dec 2020 06:52

Instrument :

MSVOA_V

ClientSampleId :

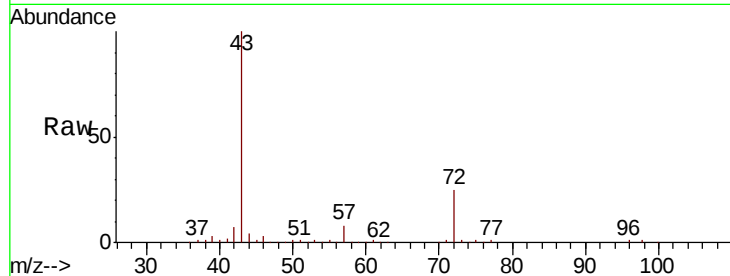
VSTD05086

Tot Ion: 43 Resp: 360995

Ion Ratio Lower Upper

43 100

72 25.4 12.3 36.9



Abundance Ion 43.00 (42.70 to 43.70): VV019569.D (-876) (-)

Ion 72.00 (71.70 to 72.70): VV019569.D (-876) (-)

3.98

120000

100000

80000

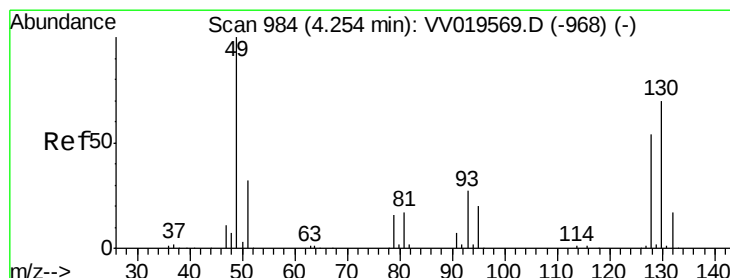
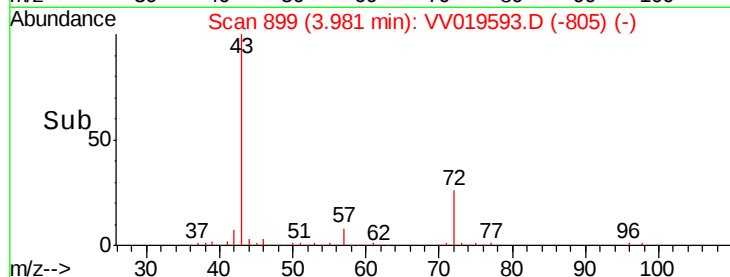
60000

40000

20000

0

Time-->



#23

Bromochloromethane

Concen: 53.132 ug/L

RT: 4.25 min Scan# 984

Delta R.T. 0.00 min

Lab File: VV019593.D

Acq: 13 Dec 2020 06:52

Tgt Ion:128 Resp: 109477

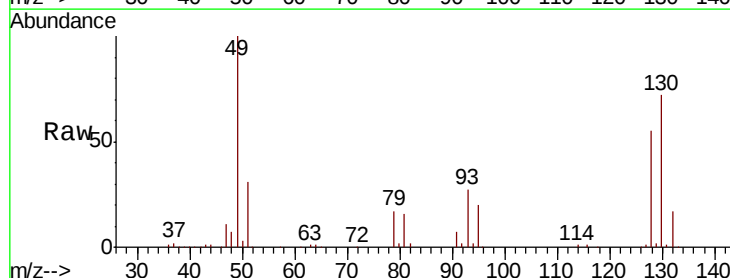
Ion Ratio Lower Upper

128 100

49 182.9 127.0 235.8

130 130.9 90.3 167.7

51 57.4 44.5 66.7



Abundance Ion 128.00 (127.70 to 128.70): VV019569.D (-968) (-)

Ion 49.00 (48.70 to 49.70): VV019569.D (-968) (-)

Ion 130.00 (129.70 to 130.70): VV019569.D (-968) (-)

Ion 51.00 (50.70 to 51.70): VV019569.D (-968) (-)

120000

100000

80000

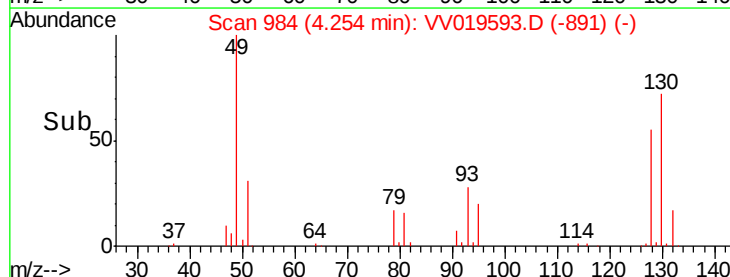
60000

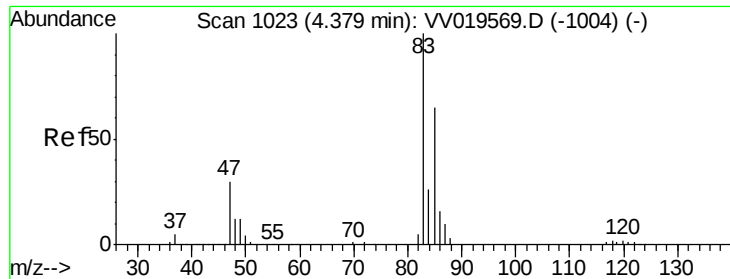
40000

20000

0

Time-->

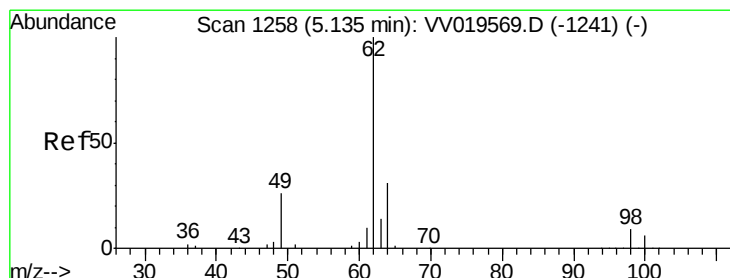
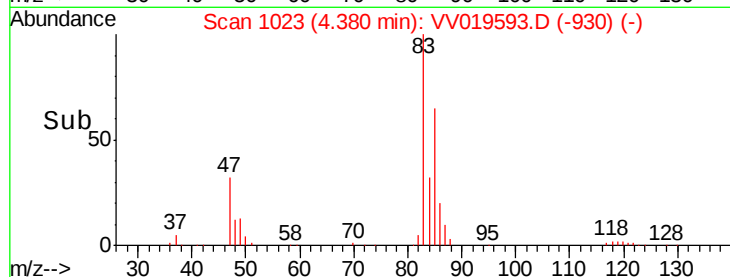
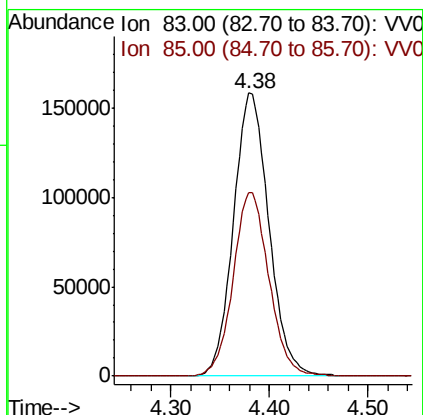
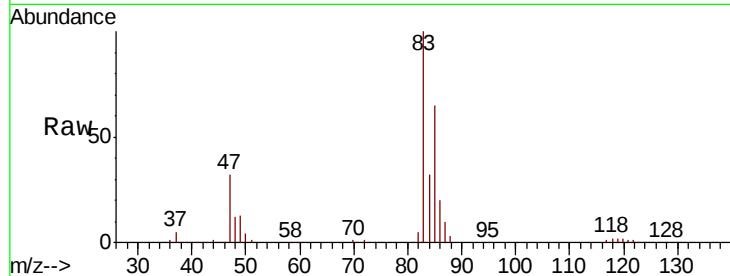




#25
Chloroform
Concen: 53.563 ug/L
RT: 4.38 min Scan# 1023
Delta R.T. 0.00 min
Lab File: VV019593.D
Acq: 13 Dec 2020 06:52

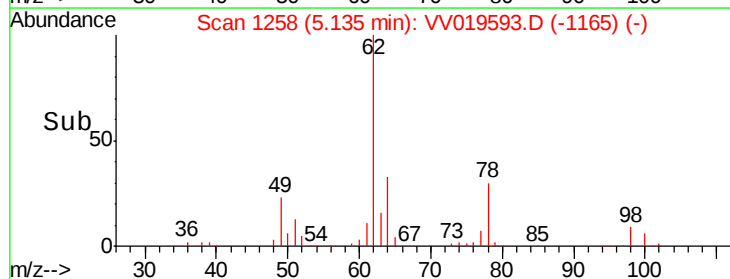
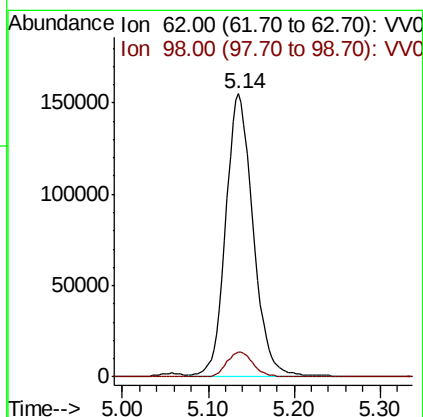
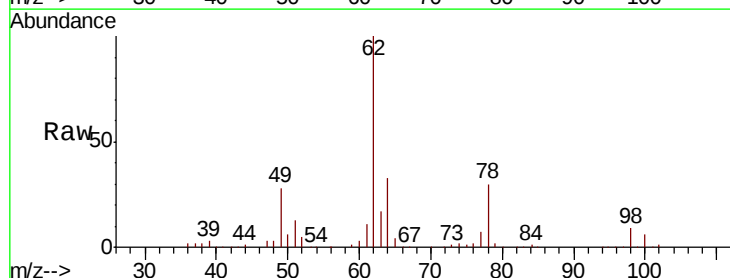
Instrument :
MSVOA_V
ClientSampleId :
VSTD05086

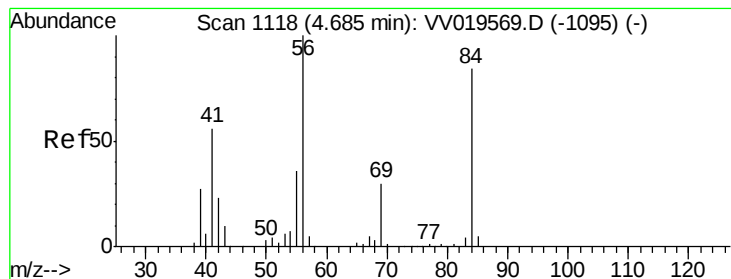
Tot Ion: 83 Resp: 395082
Ion Ratio Lower Upper
83 100
85 64.9 45.6 84.6



#27
1,2-Dichloroethane
Concen: 55.888 ug/L
RT: 5.14 min Scan# 1258
Delta R.T. 0.00 min
Lab File: VV019593.D
Acq: 13 Dec 2020 06:52

Tgt Ion: 62 Resp: 341514
Ion Ratio Lower Upper
62 100
98 8.7 7.4 11.0





#29

Cvclohexane

Concen: 42.805 ug/L

RT: 4.68 min Scan# 1117

Delta R.T. -0.00 min

Lab File: VV019593.D

Acq: 13 Dec 2020 06:52

Instrument :

MSVOA_V

ClientSampleId :

VSTD05086

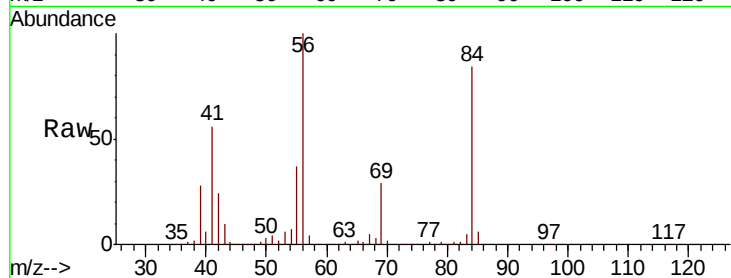
Tot Ion: 56 Resp: 281417

Ion Ratio Lower Upper

56 100

69 29.8 24.6 37.0

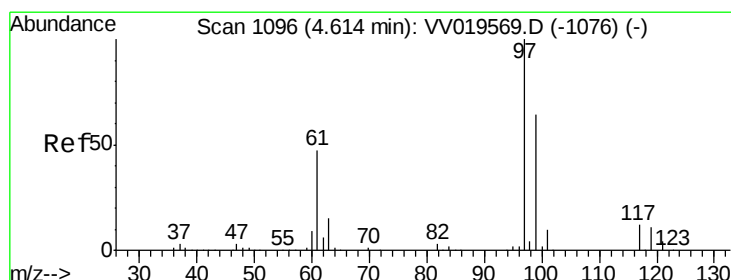
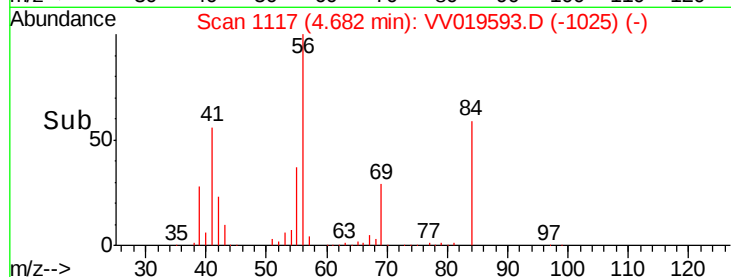
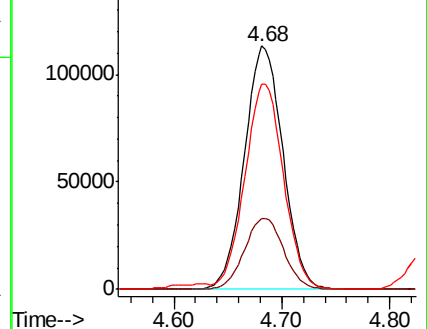
84 84.3 68.2 102.4



Abundance Ion 56.00 (55.70 to 56.70): VV019569.D (-1095) (-)

Ion 69.00 (68.70 to 69.70): VV019569.D (-1095) (-)

Ion 84.00 (83.70 to 84.70): VV019569.D (-1095) (-)



#30

1,1,1-Trichloroethane

Concen: 48.727 ug/L

RT: 4.61 min Scan# 1096

Delta R.T. 0.00 min

Lab File: VV019593.D

Acq: 13 Dec 2020 06:52

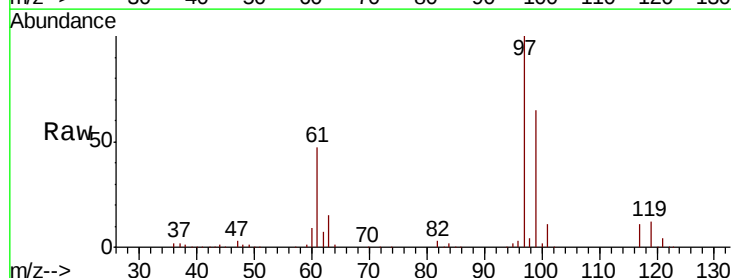
Tgt Ion: 97 Resp: 327737

Ion Ratio Lower Upper

97 100

99 64.5 51.3 76.9

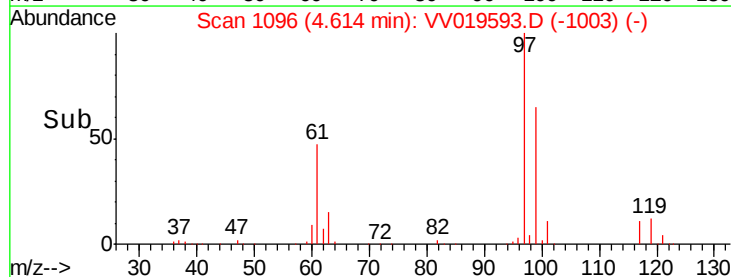
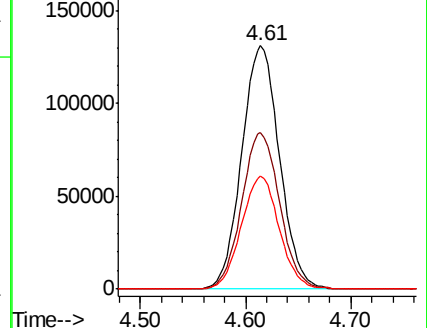
61 46.6 36.3 54.5

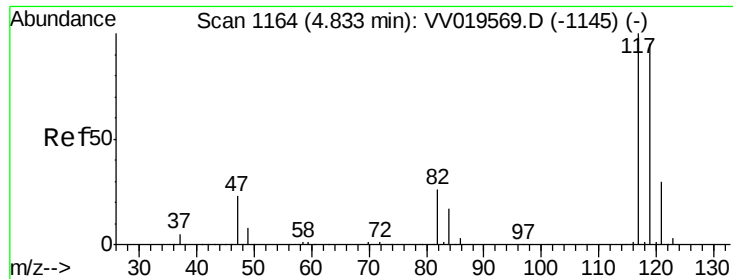


Abundance Ion 97.00 (96.70 to 97.70): VV019569.D (-1076) (-)

Ion 99.00 (98.70 to 99.70): VV019569.D (-1076) (-)

Ion 61.05 (60.75 to 61.75): VV019569.D (-1076) (-)





#31

Carbon tetrachloride

Concen: 45.033 ug/L

RT: 4.83 min Scan# 1164

Delta R.T. 0.00 min

Lab File: VV019593.D

Acq: 13 Dec 2020 06:52

Instrument :

MSVOA_V

ClientSampleId :

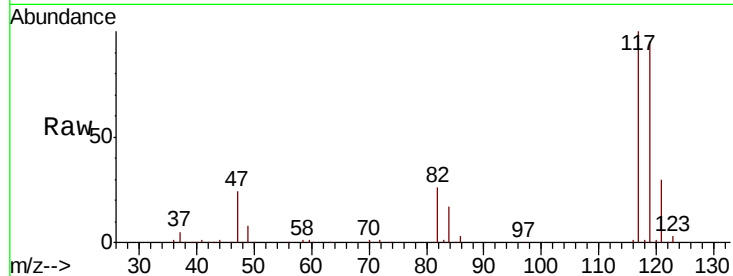
VSTD05086

Tot Ion:117 Resp: 255699

Ion Ratio Lower Upper

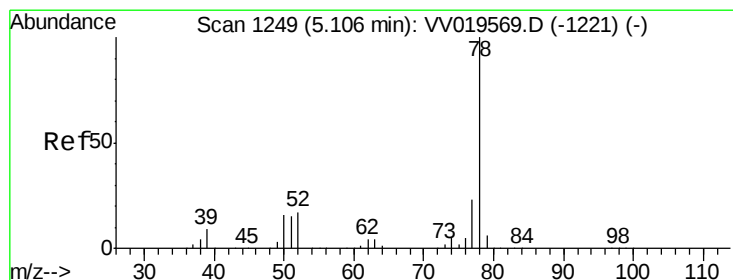
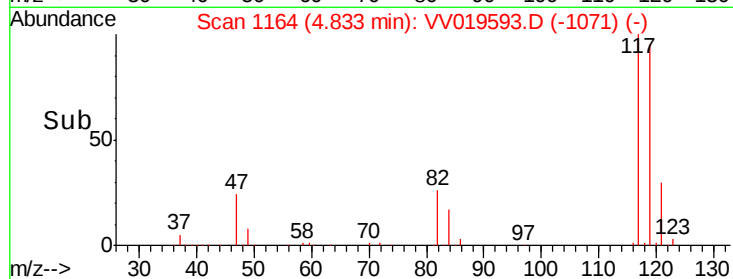
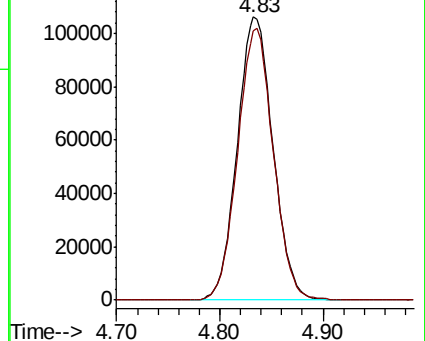
117 100

119 95.8 75.7 113.5



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 52.150 ug/L

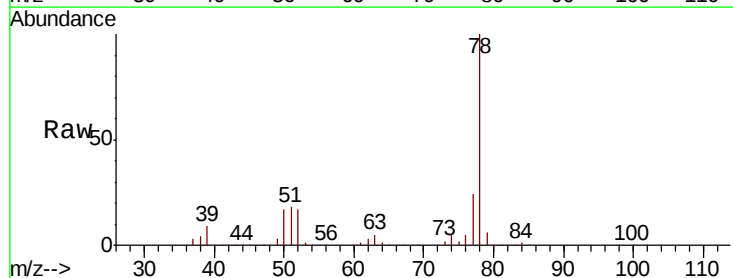
RT: 5.10 min Scan# 1248

Delta R.T. -0.00 min

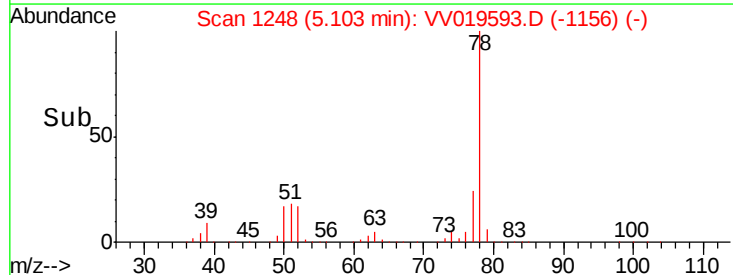
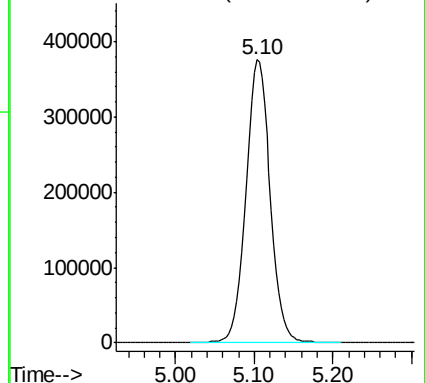
Lab File: VV019593.D

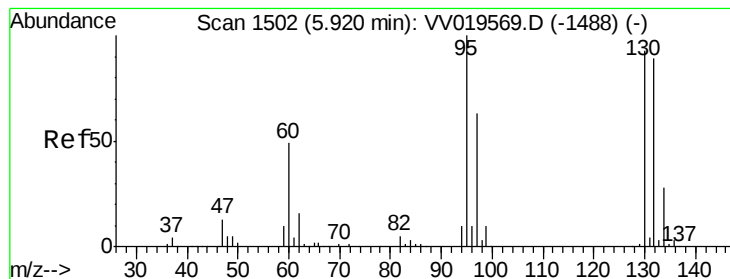
Acq: 13 Dec 2020 06:52

Tgt Ion: 78 Resp: 817567



Abundance Ion 78.00 (77.70 to 78.70): VV0





#34

Trichloroethene

Concen: 48.366 ug/L

RT: 5.92 min Scan# 1502

Delta R.T. 0.00 min

Lab File: VV019593.D

Acq: 13 Dec 2020 06:52

Instrument :

MSVOA_V

ClientSampleId :

VSTD05086

Tot Ion: 95 Resp: 200300

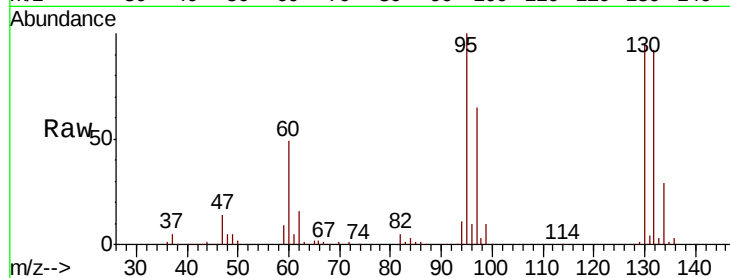
Ion Ratio Lower Upper

95 100

97 64.6 44.4 82.4

132 91.7 64.3 119.3

130 95.2 67.8 125.8



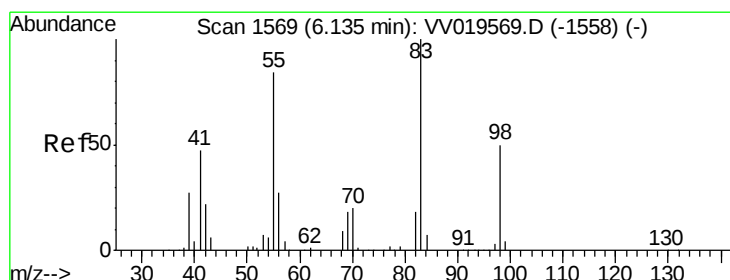
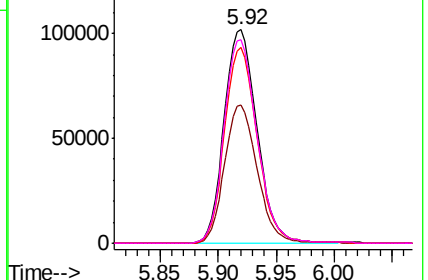
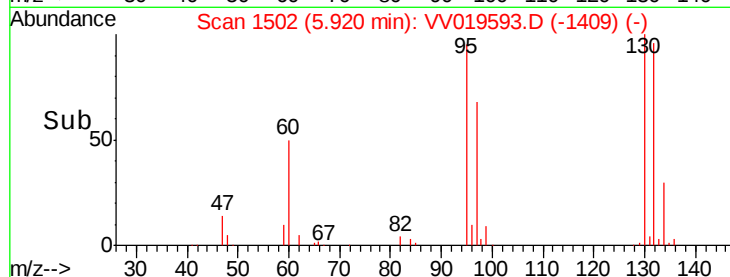
Abundance

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): VV0

Ion 130.00 (129.70 to 130.70): VV0



#35

Methylcyclohexane

Concen: 42.542 ug/L

RT: 6.14 min Scan# 1569

Delta R.T. 0.00 min

Lab File: VV019593.D

Acq: 13 Dec 2020 06:52

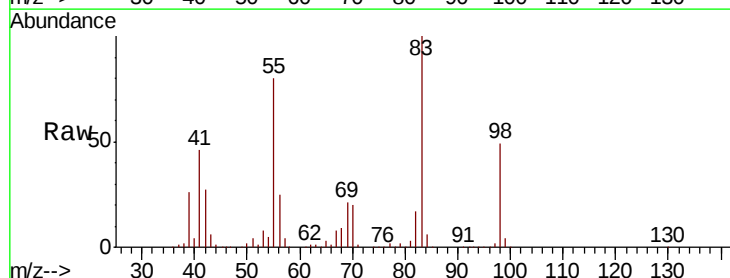
Tgt Ion: 83 Resp: 267651

Ion Ratio Lower Upper

83 100

55 80.4 64.2 96.4

98 49.0 39.3 58.9

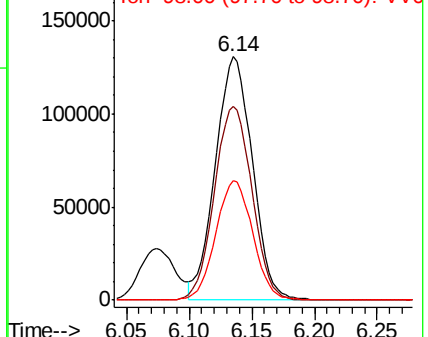
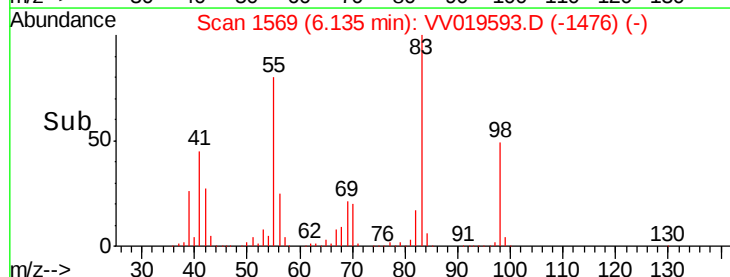


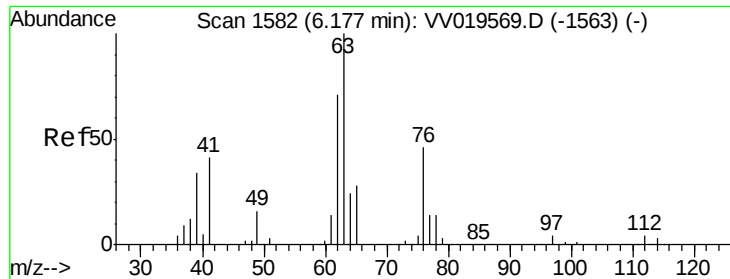
Abundance

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





#37

1,2-Dichloropropane

Concen: 55.425 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. 0.00 min

Lab File: VV019593.D

Acq: 13 Dec 2020 06:52

Instrument :

MSVOA_V

ClientSampleId :

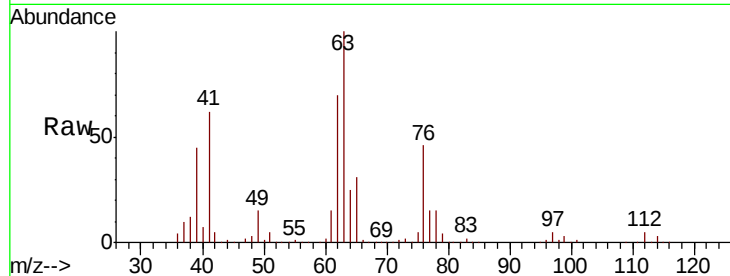
VSTD05086

Tot Ion: 63 Resp: 226913

Ion Ratio Lower Upper

63 100

112 4.4 3.5 5.3



Abundance Ion 63.00 (62.70 to 63.70): VV019569.D (-1563) (-)

Ion 112.00 (111.70 to 112.70): VV019569.D (-1563) (-)

6.18

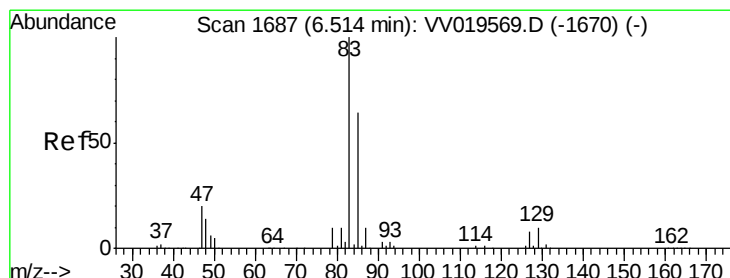
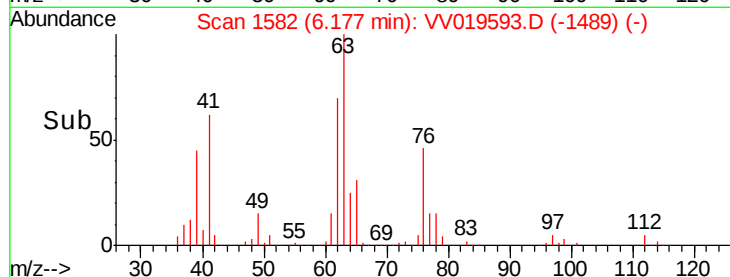
100000

50000

0

6.10 6.20 6.30

Time-->



#38

Bromodichloromethane

Concen: 53.062 ug/L

RT: 6.51 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VV019593.D

Acq: 13 Dec 2020 06:52

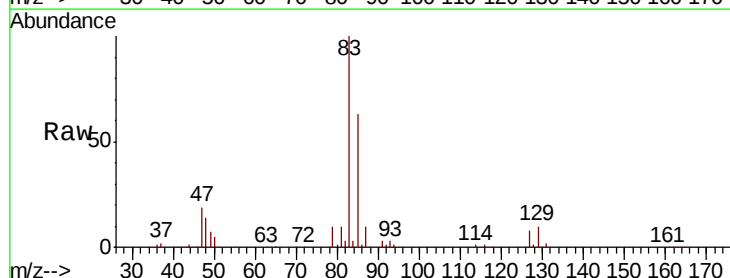
Tgt Ion: 83 Resp: 303775

Ion Ratio Lower Upper

83 100

85 63.1 44.9 83.5

127 8.1 6.7 10.1



Abundance Ion 83.00 (82.70 to 83.70): VV019569.D (-1670) (-)

Ion 85.00 (84.70 to 85.70): VV019569.D (-1670) (-)

Ion 127.00 (126.70 to 127.70): VV019569.D (-1670) (-)

6.51

200000

150000

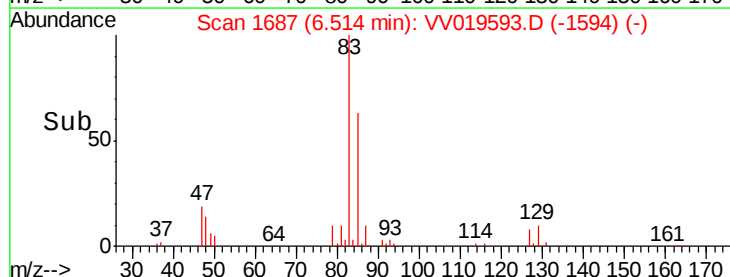
100000

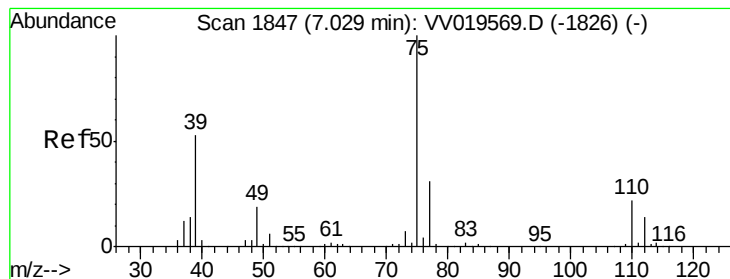
50000

0

6.40 6.50 6.60 6.70

Time-->



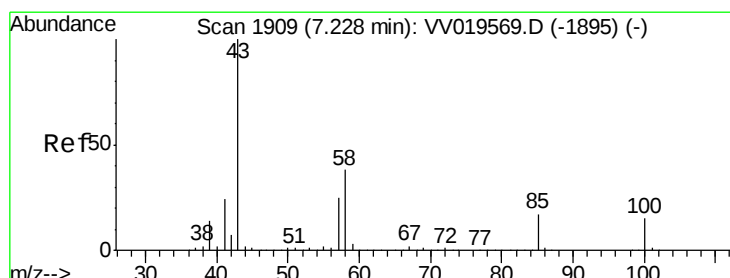
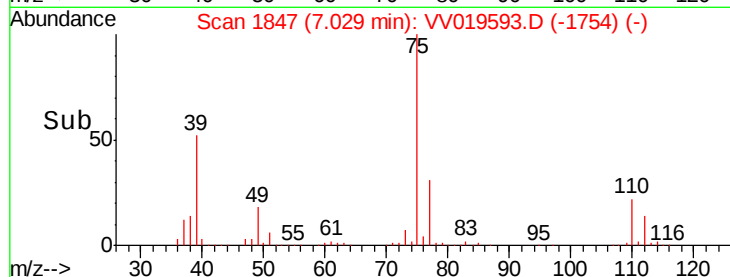
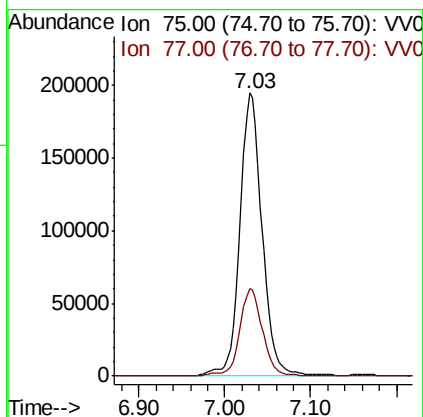
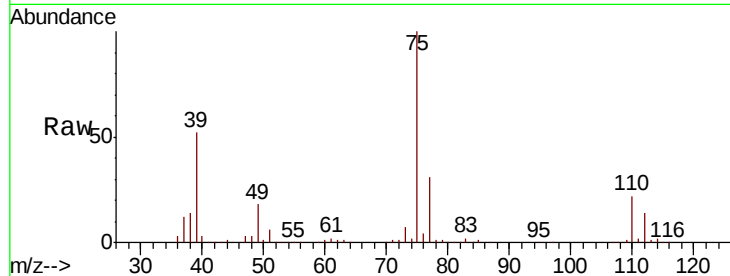


#39

cis-1,3-Dichloropropene
Concen: 51.578 ug/L
RT: 7.03 min Scan# 1847
Delta R.T. 0.00 min
Lab File: VV019593.D
Acq: 13 Dec 2020 06:52

Instrument :
MSVOA_V
ClientSampleId :
VSTD05086

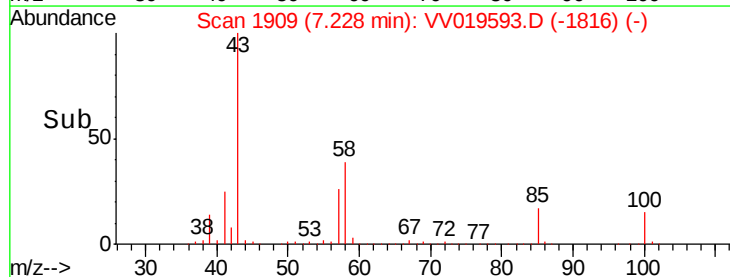
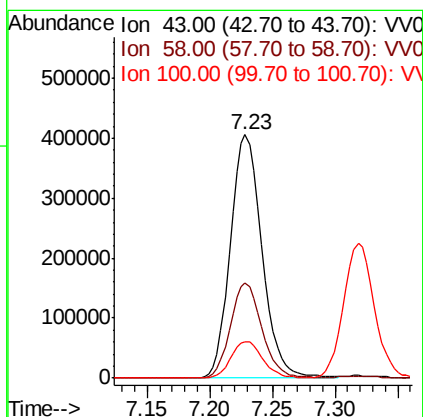
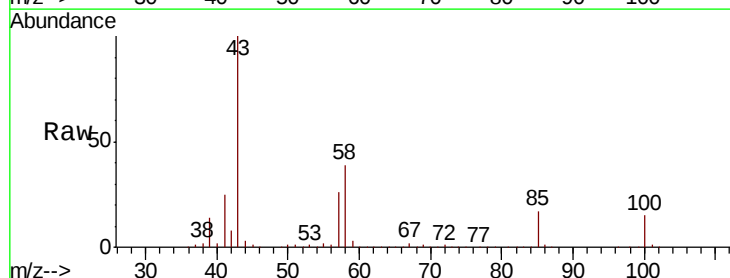
Tot Ion: 75 Resp: 350718
Ion Ratio Lower Upper
75 100
77 31.0 22.4 41.6

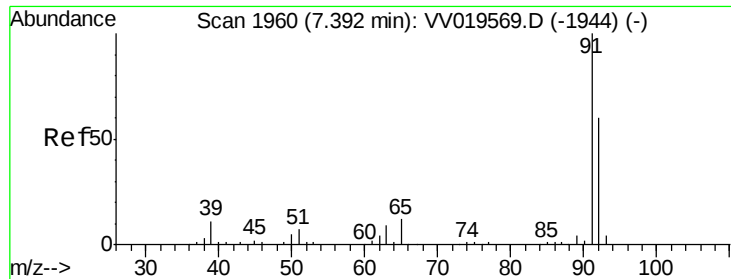


#40

4-Methyl-2-pentanone
Concen: 120.351 ug/L
RT: 7.23 min Scan# 1909
Delta R.T. 0.00 min
Lab File: VV019593.D
Acq: 13 Dec 2020 06:52

Tgt Ion: 43 Resp: 710868
Ion Ratio Lower Upper
43 100
58 38.7 31.7 47.5
100 15.1 12.5 18.7





#42

Toluene

Concen: 48.907 ug/L

RT: 7.39 min Scan# 1959

Delta R.T. -0.00 min

Lab File: VV019593.D

Acq: 13 Dec 2020 06:52

Instrument :

MSVOA_V

ClientSampleId :

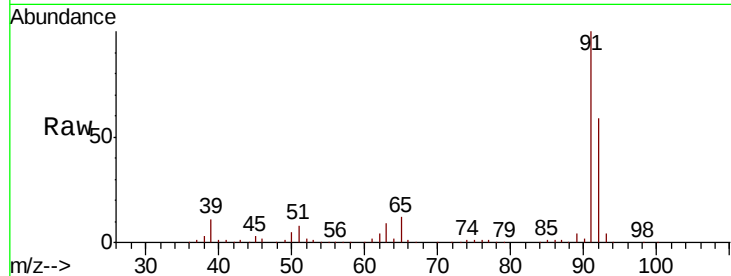
VSTD05086

Tot Ion: 91 Resp: 808103

Ion Ratio Lower Upper

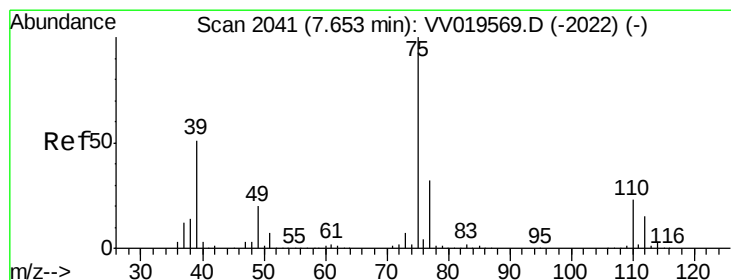
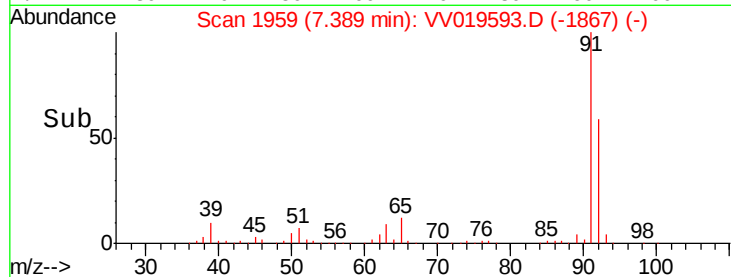
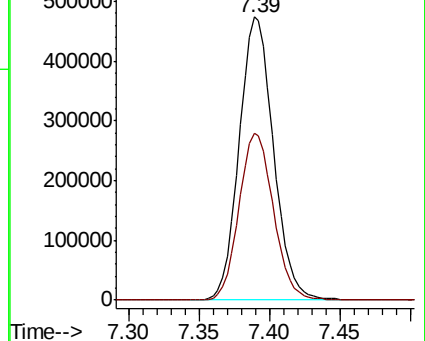
91 100

92 59.1 41.4 76.8



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0



#44

trans-1,3-Dichloropropene

Concen: 49.421 ug/L

RT: 7.65 min Scan# 2041

Delta R.T. 0.00 min

Lab File: VV019593.D

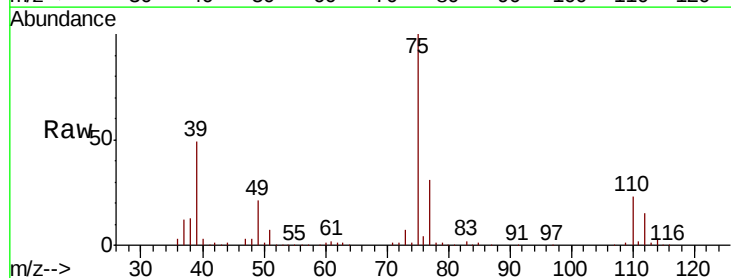
Acq: 13 Dec 2020 06:52

Tgt Ion: 75 Resp: 340268

Ion Ratio Lower Upper

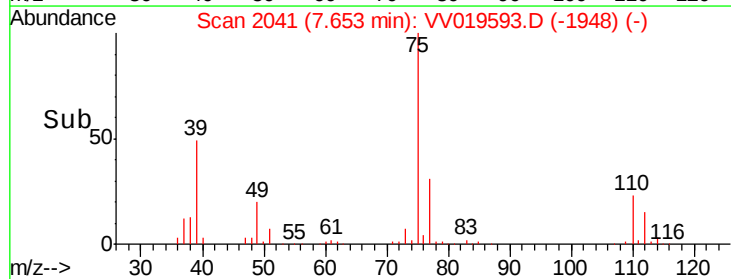
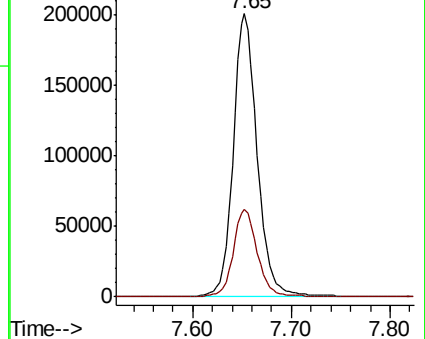
75 100

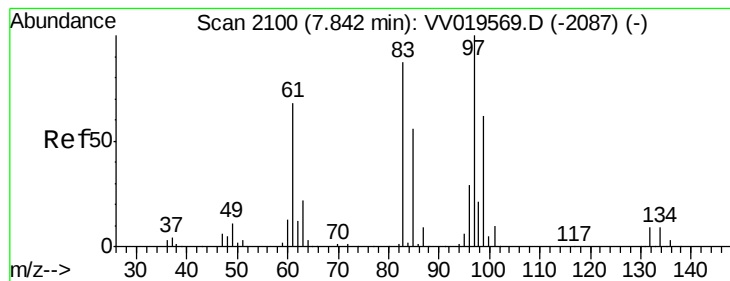
77 30.8 22.5 41.9



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0





#45

1,1,2-Trichloroethane

Concen: 55.211 ug/L

RT: 7.84 min Scan# 2100

Delta R.T. 0.00 min

Lab File: VV019593.D

Acq: 13 Dec 2020 06:52

Instrument :

MSVOA_V

ClientSampleId :

VSTD05086

Tot Ion: 97 Resp: 214654

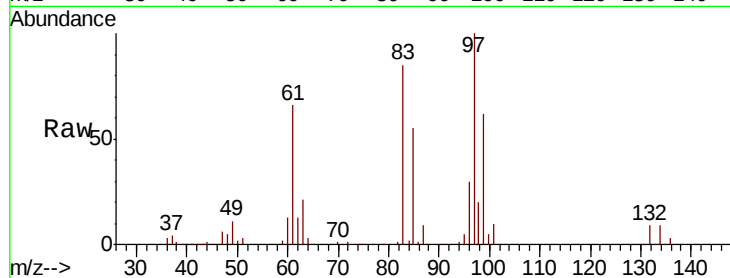
Ion Ratio Lower Upper

97 100

99 61.9 44.1 81.9

83 85.0 60.0 111.4

85 55.0 38.6 71.8

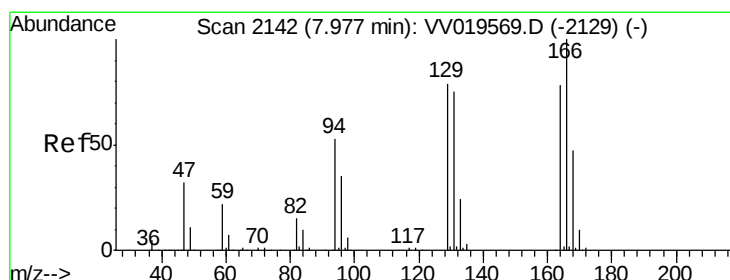
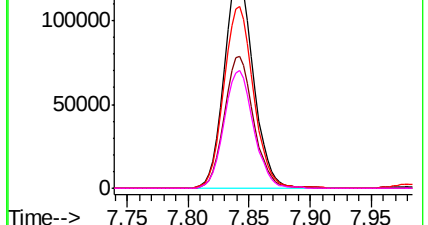
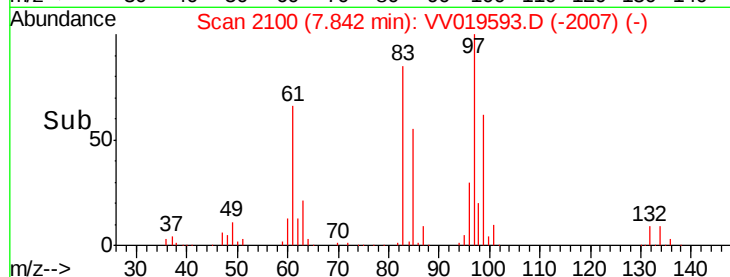


Abundance Ion 97.00 (96.70 to 97.70): VV019593.D (-2007) (-)

Ion 99.00 (98.70 to 99.70): VV019593.D (-2007) (-)

Ion 83.00 (82.70 to 83.70): VV019593.D (-2007) (-)

Ion 85.00 (84.70 to 85.70): VV019593.D (-2007) (-)



#46

Tetrachloroethene

Concen: 44.132 ug/L

RT: 7.98 min Scan# 2142

Delta R.T. 0.00 min

Lab File: VV019593.D

Acq: 13 Dec 2020 06:52

Tgt Ion: 164 Resp: 126464

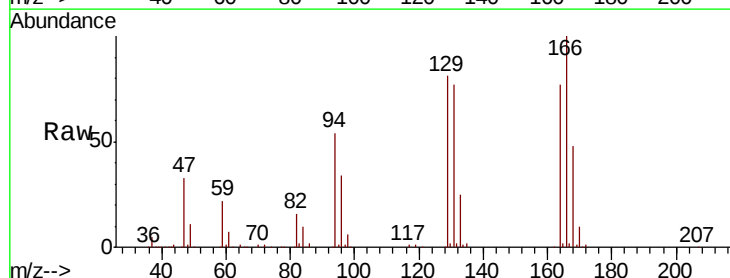
Ion Ratio Lower Upper

164 100

129 105.5 70.6 131.0

131 99.4 68.0 126.4

166 129.9 86.9 161.5

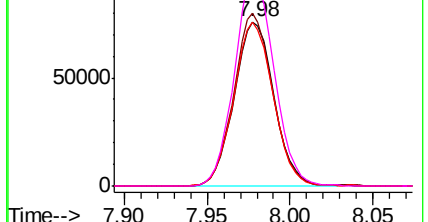
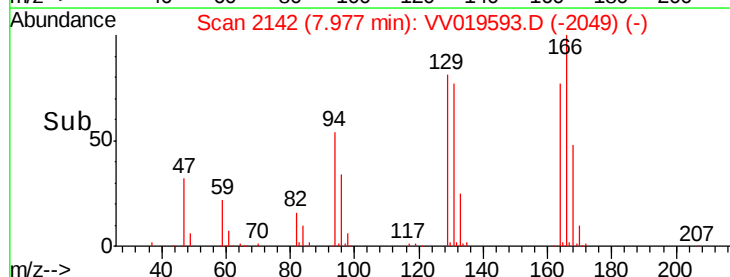


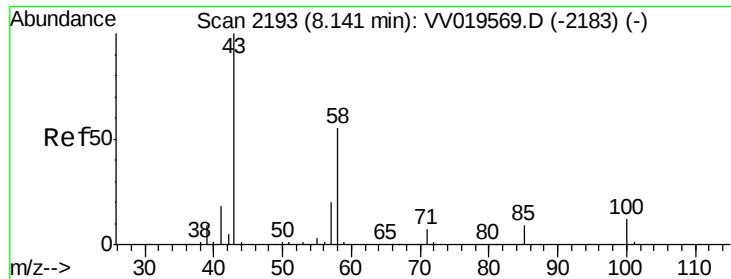
Abundance Ion 164.00 (163.70 to 164.70): VV019593.D (-2049) (-)

Ion 129.00 (128.70 to 129.70): VV019593.D (-2049) (-)

Ion 131.00 (130.70 to 131.70): VV019593.D (-2049) (-)

Ion 166.00 (165.70 to 166.70): VV019593.D (-2049) (-)

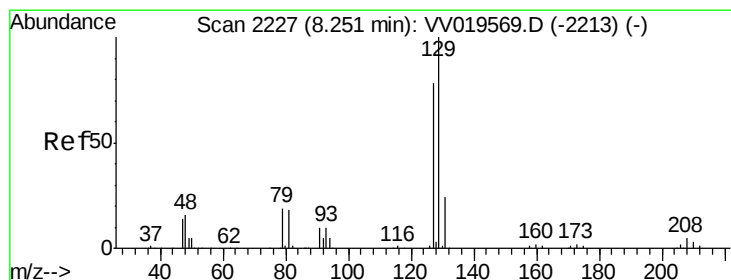
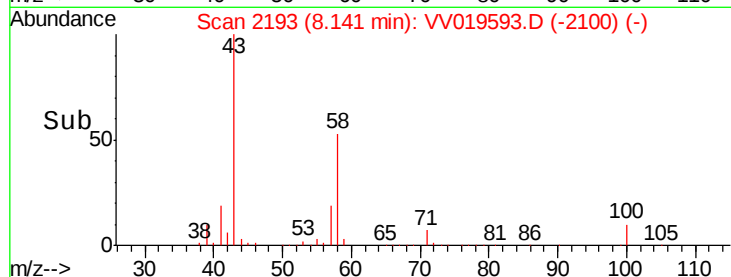
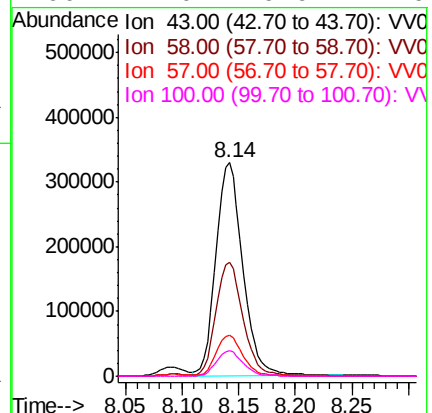
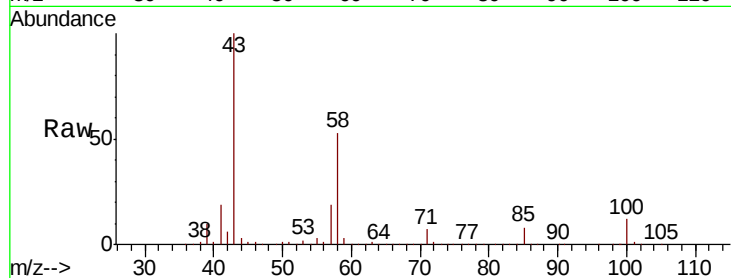




#48
2-Hexanone
Concen: 120.712 ug/L
RT: 8.14 min Scan# 2193
Delta R.T. 0.00 min
Lab File: VV019593.D
Acq: 13 Dec 2020 06:52

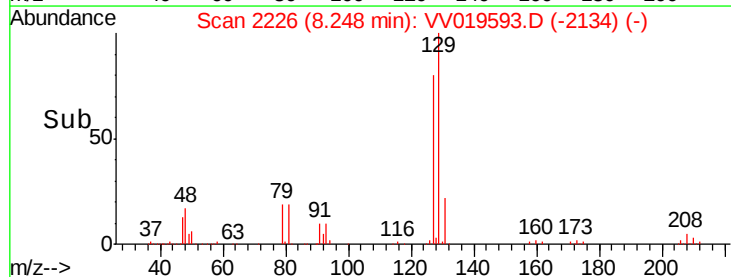
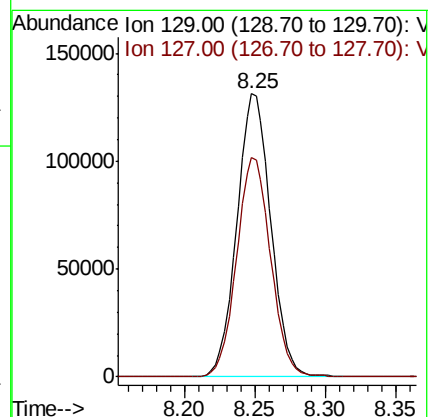
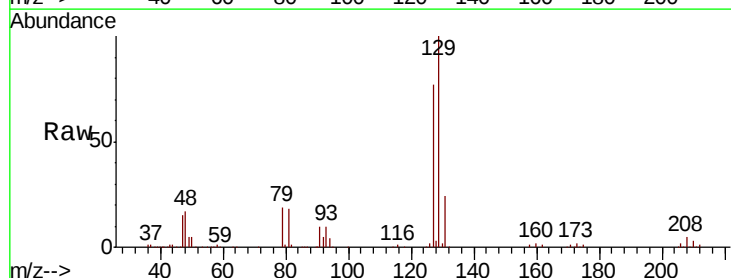
Instrument :
MSVOA_V
ClientSampleId :
VSTD05086

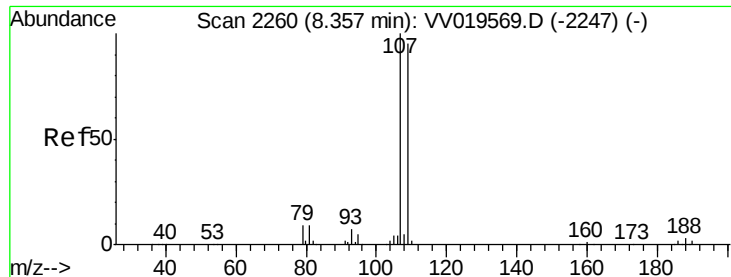
Tot Ion: 43 Resp: 541008
Ion Ratio Lower Upper
43 100
58 53.4 44.4 66.6
57 19.2 15.7 23.5
100 12.0 9.9 14.9



#49
Dibromochloromethane
Concen: 51.989 ug/L
RT: 8.25 min Scan# 2226
Delta R.T. -0.00 min
Lab File: VV019593.D
Acq: 13 Dec 2020 06:52

Tgt Ion: 129 Resp: 221354
Ion Ratio Lower Upper
129 100
127 77.4 54.2 100.6

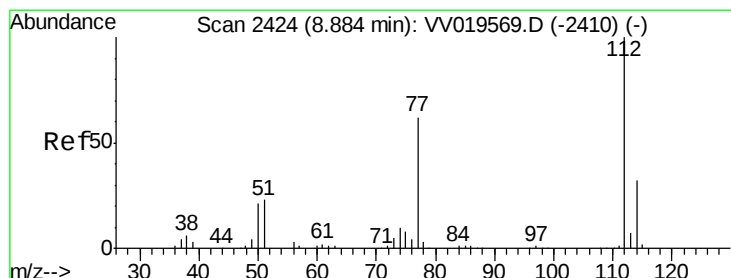
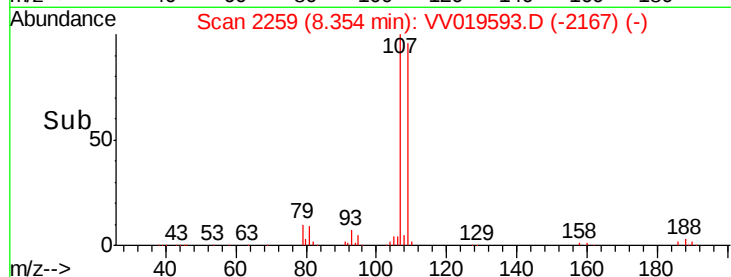
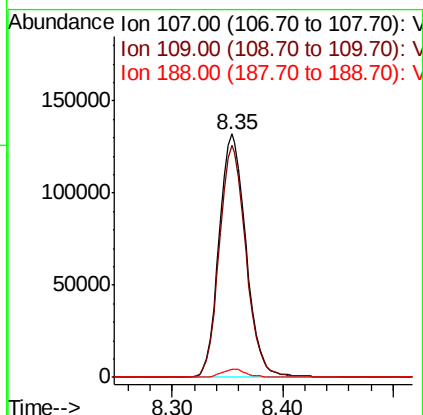
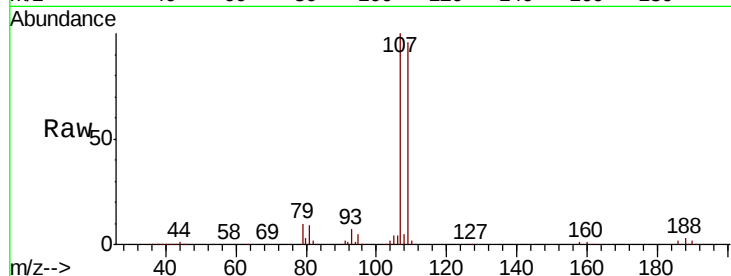




#50
1,2-Dibromoethane
Concen: 54.670 ug/L
RT: 8.35 min Scan# 2259
Delta R.T. -0.00 min
Lab File: VV019593.D
Acq: 13 Dec 2020 06:52

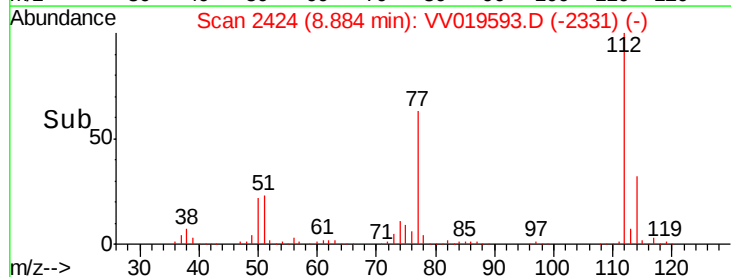
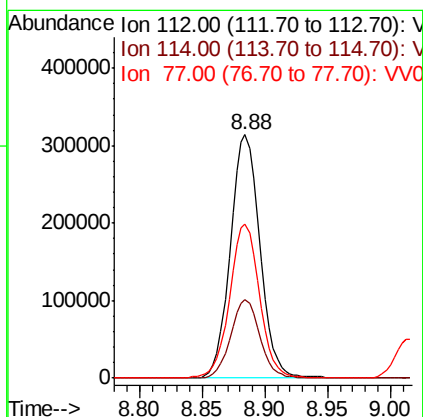
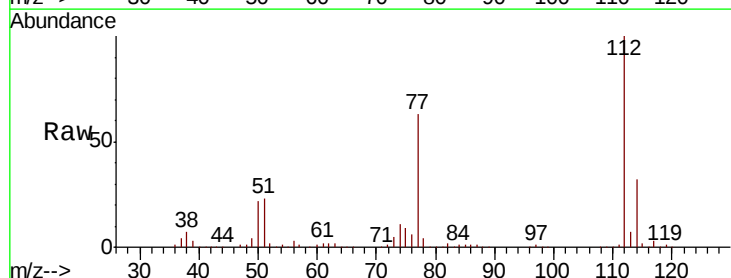
Instrument :
MSVOA_V
ClientSampleId :
VSTD05086

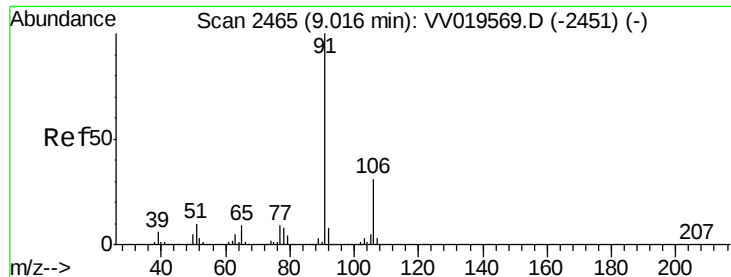
Tot Ion	Ratio	Lower	Upper
107	100		
109	95.5	66.4	123.2
188	3.4	2.9	4.3



#51
Chlorobenzene
Concen: 48.757 ug/L
RT: 8.88 min Scan# 2424
Delta R.T. 0.00 min
Lab File: VV019593.D
Acq: 13 Dec 2020 06:52

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.0	22.2	41.2
77	63.2	50.6	75.8





#52

Ethylbenzene

Concen: 46.815 ug/L

RT: 9.02 min Scan# 2465

Delta R.T. 0.00 min

Lab File: VV019593.D

Acq: 13 Dec 2020 06:52

Instrument :

MSVOA_V

ClientSampleId :

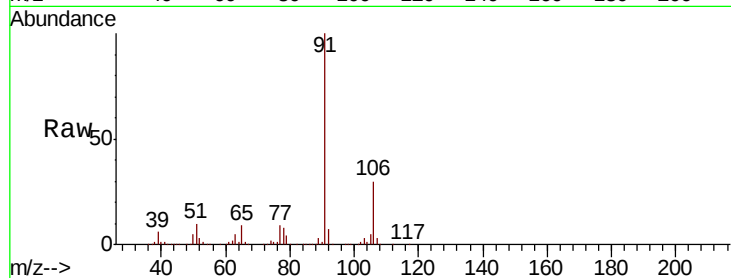
VSTD05086

Tot Ion: 91 Resp: 881313

Ion Ratio Lower Upper

91 100

106 30.3 21.1 39.3

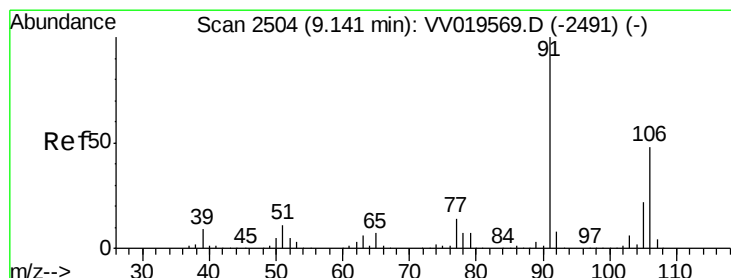
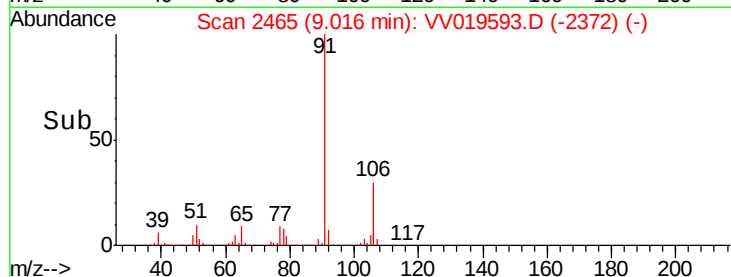


Abundance Ion 91.00 (90.70 to 91.70): VV019569.D (-2451) (-)

Ion 106.00 (105.70 to 106.70): VV019569.D (-2451) (-)

Time-->

Mass spectrum showing relative abundance (0 to 600,000) versus Time (8.95 to 9.10 min). Key peaks are labeled at 9.02 min.



#53

m,p-Xylene

Concen: 46.137 ug/L

RT: 9.14 min Scan# 2504

Delta R.T. 0.00 min

Lab File: VV019593.D

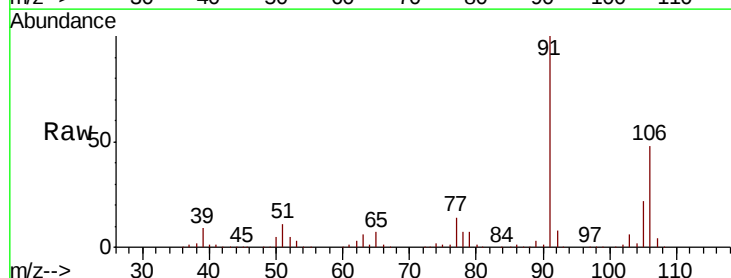
Acq: 13 Dec 2020 06:52

Tgt Ion: 106 Resp: 324490

Ion Ratio Lower Upper

106 100

91 207.9 147.7 274.3

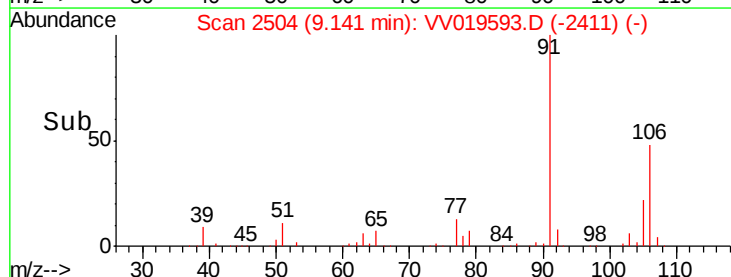


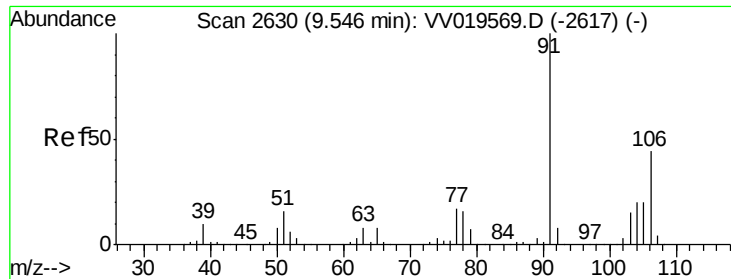
Abundance Ion 106.00 (105.70 to 106.70): VV019569.D (-2491) (-)

Ion 91.00 (90.70 to 91.70): VV019569.D (-2491) (-)

Time-->

Mass spectrum showing relative abundance (0 to 500,000) versus Time (9.05 to 9.20 min). Key peaks are labeled at 9.14 min.





#54

o-xylene

Concen: 48.126 ug/L

RT: 9.55 min Scan# 2630

Delta R.T. 0.00 min

Lab File: VV019593.D

Acq: 13 Dec 2020 06:52

Instrument :

MSVOA_V

ClientSampleId :

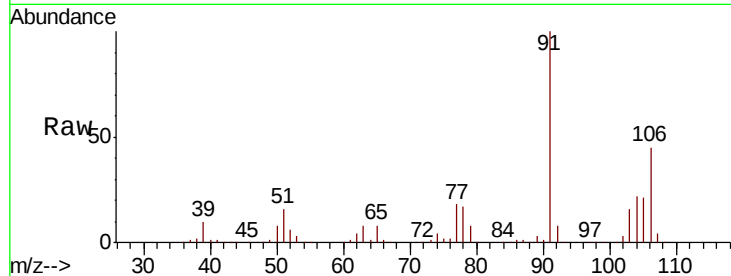
VSTD05086

Tot Ion:106 Resp: 331764

Ion Ratio Lower Upper

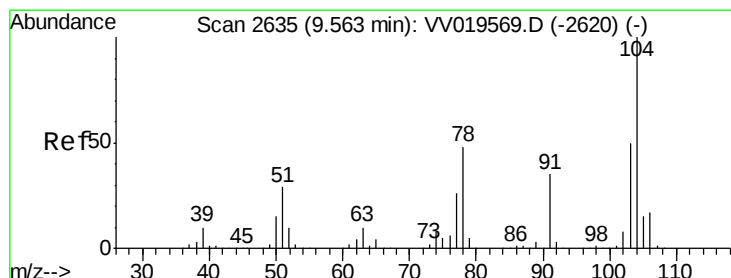
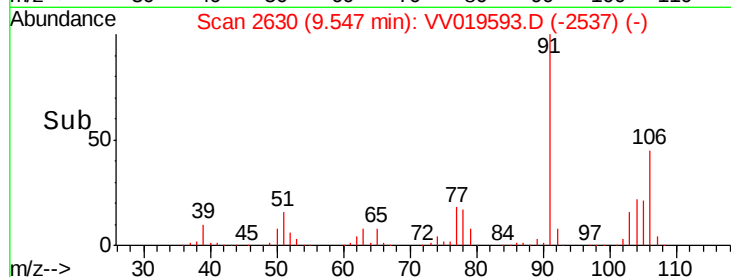
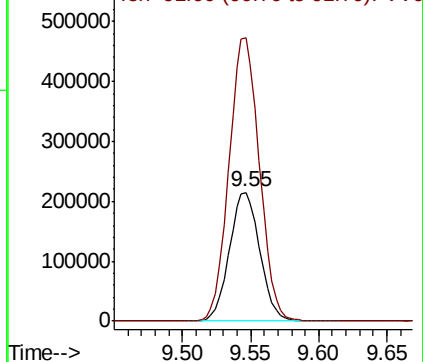
106 100

91 220.1 156.7 291.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 48.658 ug/L

RT: 9.56 min Scan# 2635

Delta R.T. 0.00 min

Lab File: VV019593.D

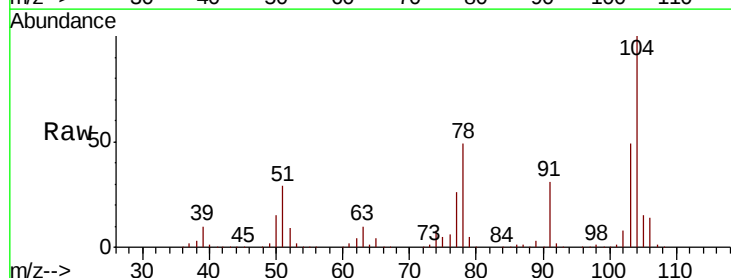
Acq: 13 Dec 2020 06:52

Tgt Ion:104 Resp: 584624

Ion Ratio Lower Upper

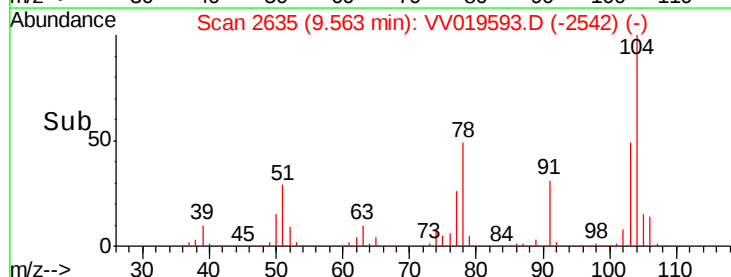
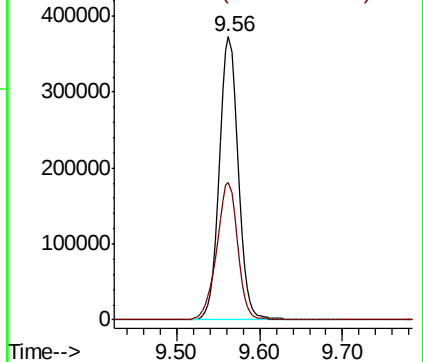
104 100

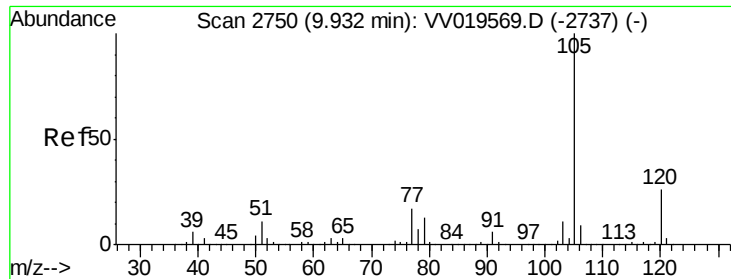
78 48.6 33.7 62.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 45.331 ug/L

RT: 9.93 min Scan# 2750

Delta R.T. 0.00 min

Lab File: VV019593.D

Acq: 13 Dec 2020 06:52

Instrument :

MSVOA_V

ClientSampleId :

VSTD05086

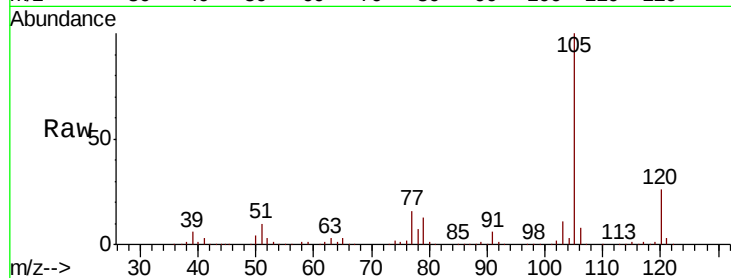
Tot Ion:105 Resp: 832517

Ion Ratio Lower Upper

105 100

120 25.3 20.6 31.0

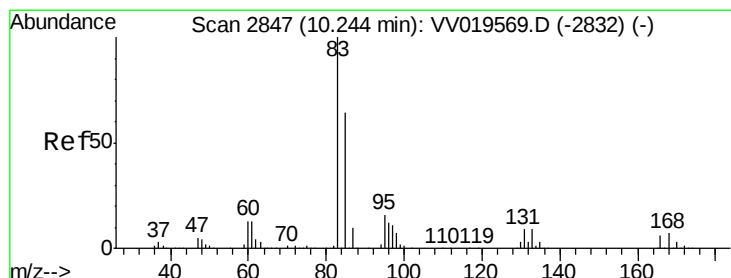
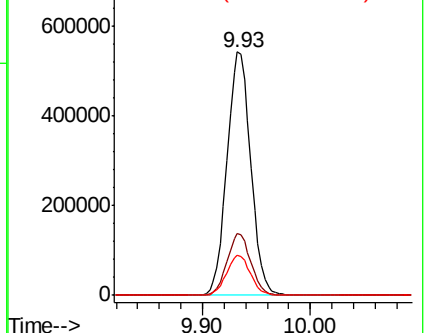
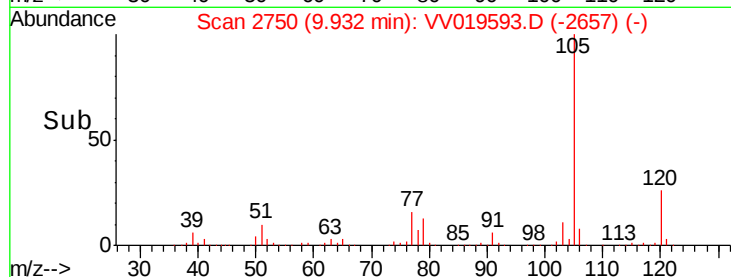
77 16.5 13.2 19.8



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: 55.770 ug/L

RT: 10.24 min Scan# 2847

Delta R.T. 0.00 min

Lab File: VV019593.D

Acq: 13 Dec 2020 06:52

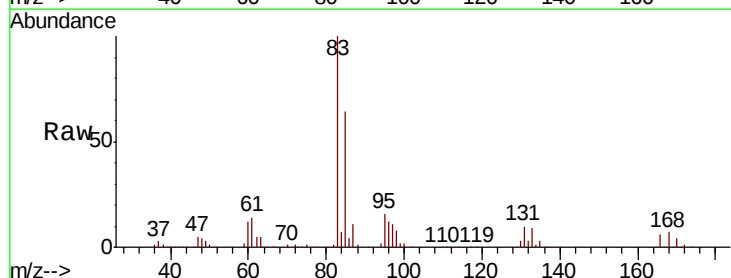
Tgt Ion: 83 Resp: 348685

Ion Ratio Lower Upper

83 100

85 63.7 44.9 83.5

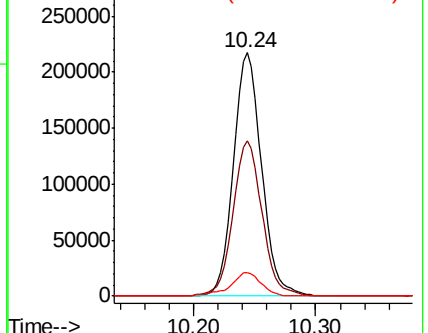
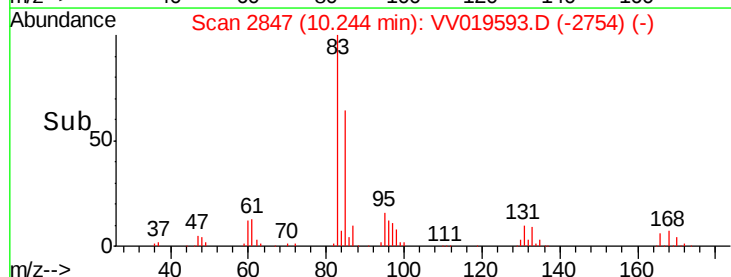
131 9.7 7.6 11.4

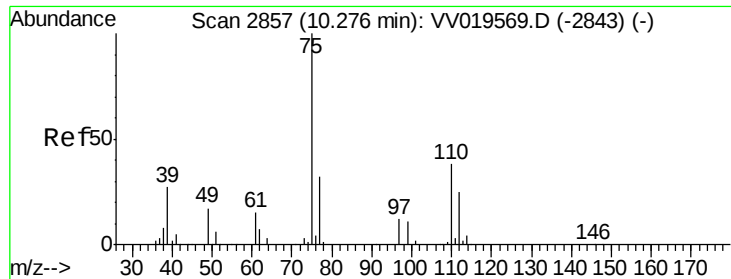


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 57.629 ug/L

RT: 10.28 min Scan# 2857

Delta R.T. 0.00 min

Lab File: VV019593.D

Acq: 13 Dec 2020 06:52

Instrument :

MSVOA_V

ClientSampleId :

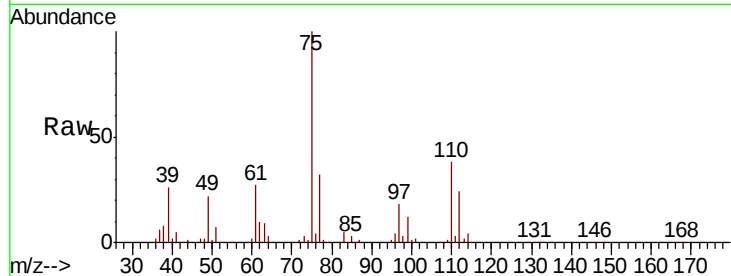
VSTD05086

Tot Ion: 75 Resp: 293472

Ion Ratio Lower Upper

75 100

77 32.2 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VV019569.D (-2843) (-)

Ion 77.00 (76.70 to 77.70): VV019569.D (-2843) (-)

10.28

200000

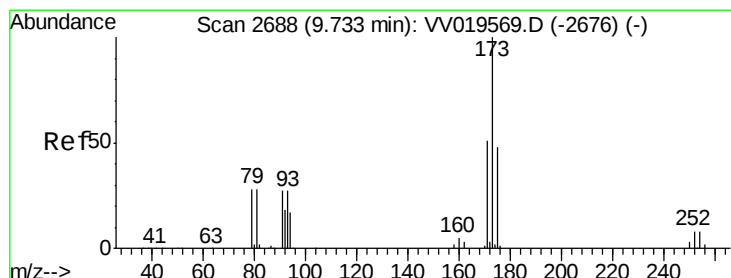
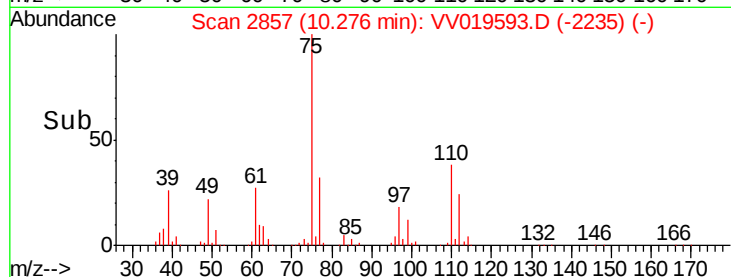
150000

100000

50000

0

Time-->



#61

Bromoform

Concen: 52.378 ug/L

RT: 9.73 min Scan# 2688

Delta R.T. 0.00 min

Lab File: VV019593.D

Acq: 13 Dec 2020 06:52

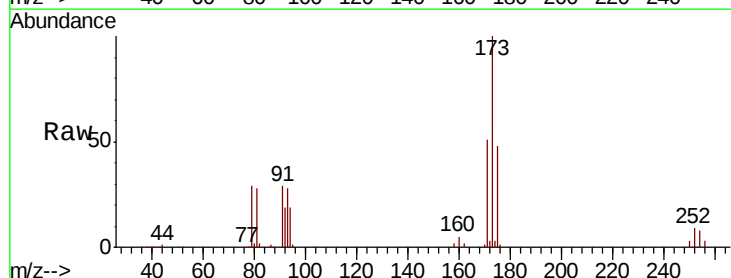
Tgt Ion: 173 Resp: 145121

Ion Ratio Lower Upper

173 100

175 48.5 38.4 57.6

254 8.0 6.6 10.0



Abundance Ion 173.00 (172.70 to 173.70): VV019569.D (-2676) (-)

Ion 175.00 (174.70 to 175.70): VV019569.D (-2676) (-)

Ion 254.00 (253.70 to 254.70): VV019569.D (-2676) (-)

9.73

120000

100000

80000

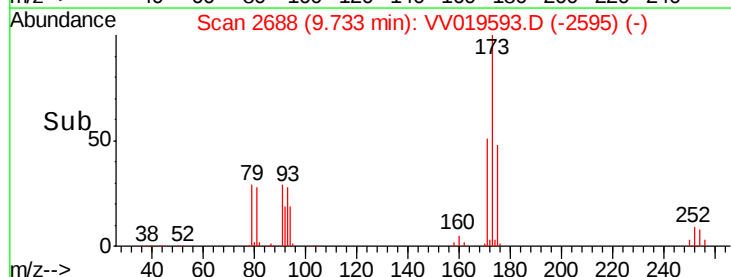
60000

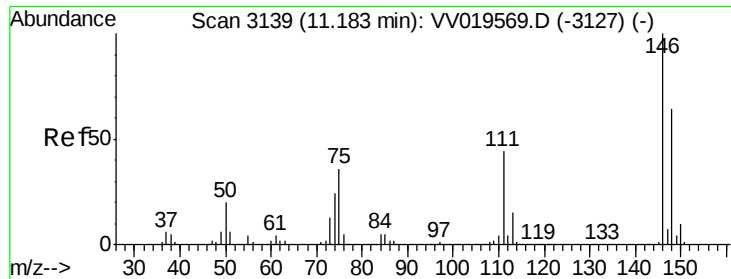
40000

20000

0

Time-->

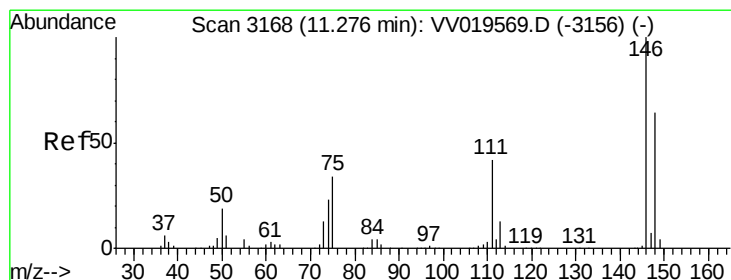
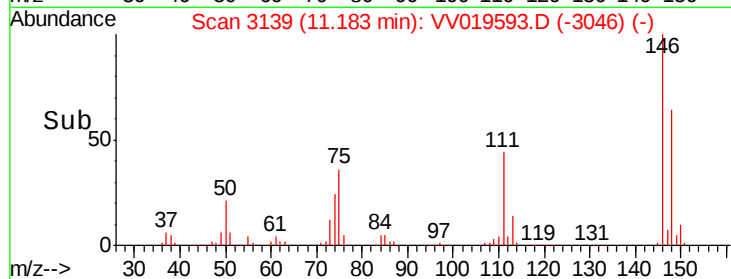
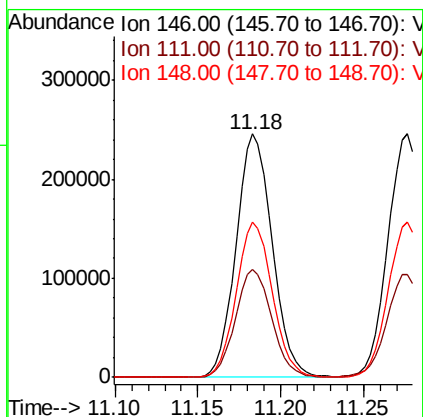
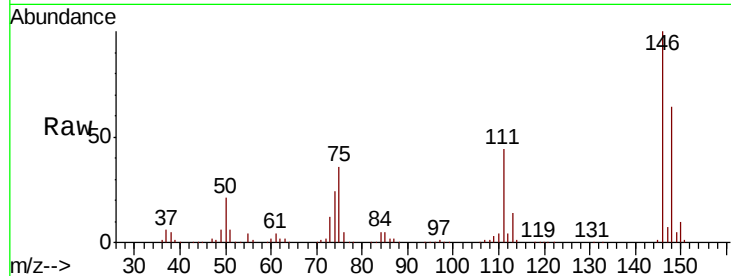




#62
 1,3-Dichlorobenzene
 Concen: 48.498 ug/L
 RT: 11.18 min Scan# 3139
 Delta R.T. 0.00 min
 Lab File: VV019593.D
 Acq: 13 Dec 2020 06:52

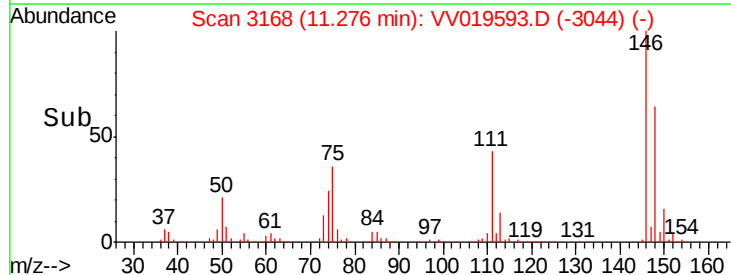
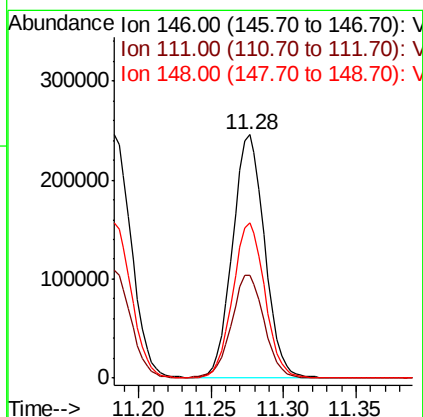
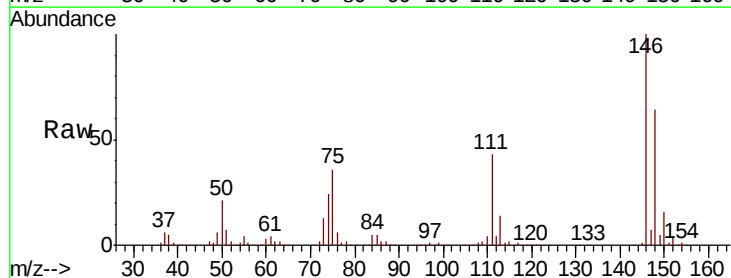
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05086

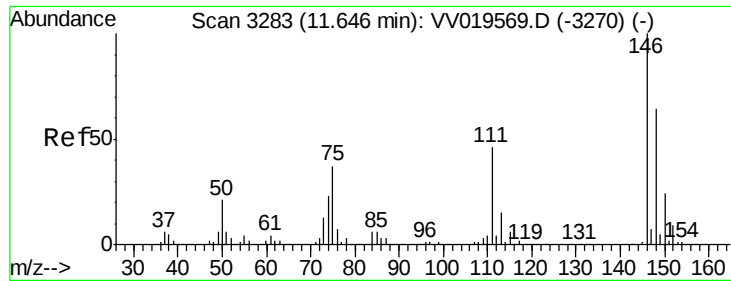
Tot Ion:146 Resp: 372590
 Ion Ratio Lower Upper
 146 100
 111 44.4 30.7 57.1
 148 63.6 45.3 84.1



#63
 1,4-Dichlorobenzene
 Concen: 48.372 ug/L
 RT: 11.28 min Scan# 3168
 Delta R.T. 0.00 min
 Lab File: VV019593.D
 Acq: 13 Dec 2020 06:52

Tgt Ion:146 Resp: 376311
 Ion Ratio Lower Upper
 146 100
 111 42.5 29.8 55.4
 148 64.0 44.2 82.0





#65

1,2-Dichlorobenzene

Concen: 51.377 ug/L

RT: 11.65 min Scan# 3283

Delta R.T. 0.00 min

Lab File: VV019593.D

Acq: 13 Dec 2020 06:52

Instrument :

MSVOA_V

ClientSampleId :

VSTD05086

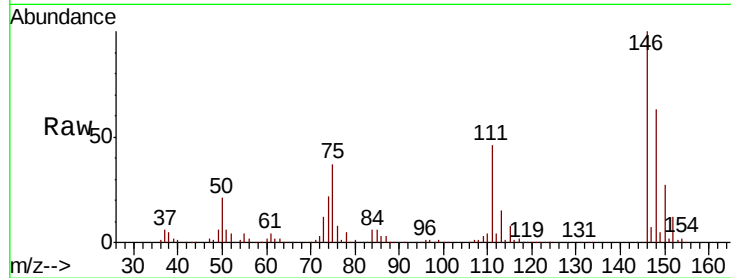
Tot Ion:146 Resp: 390019

Ion Ratio Lower Upper

146 100

111 45.7 36.6 55.0

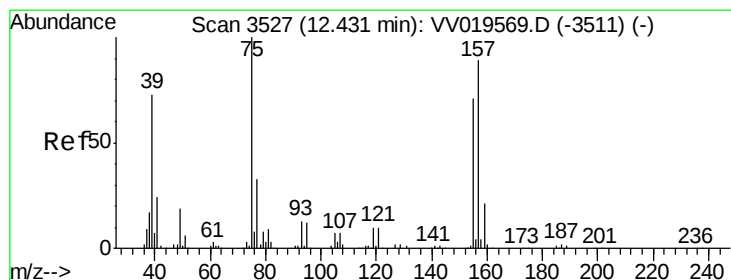
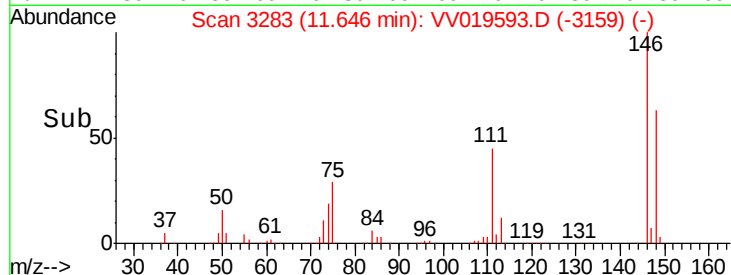
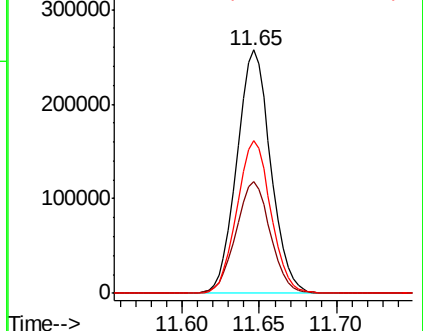
148 62.7 50.7 76.1



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: 57.185 ug/L

RT: 12.43 min Scan# 3527

Delta R.T. 0.00 min

Lab File: VV019593.D

Acq: 13 Dec 2020 06:52

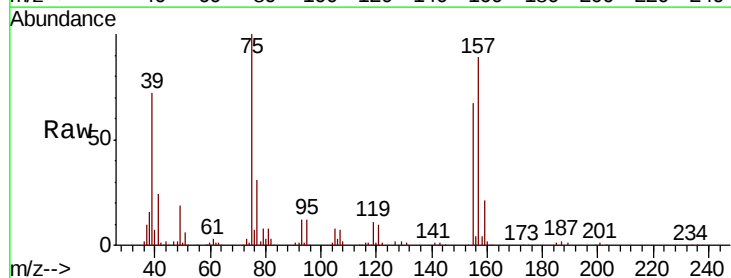
Tgt Ion: 75 Resp: 90617

Ion Ratio Lower Upper

75 100

155 67.4 61.1 91.7

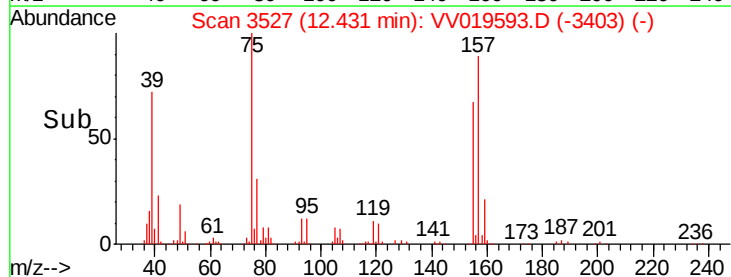
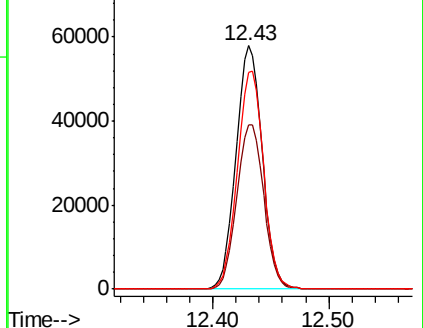
157 88.9 78.7 118.1

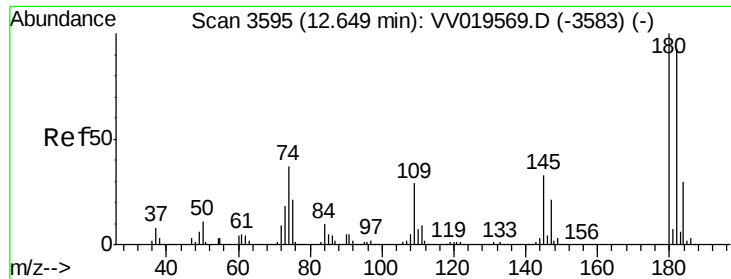


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

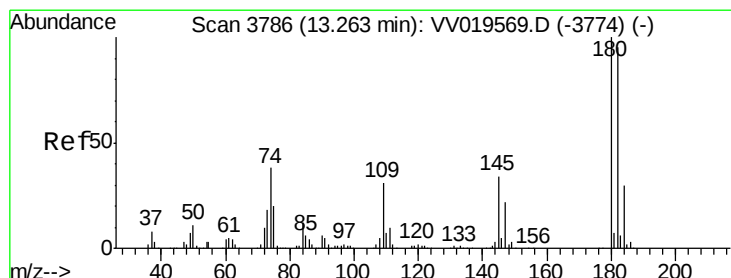
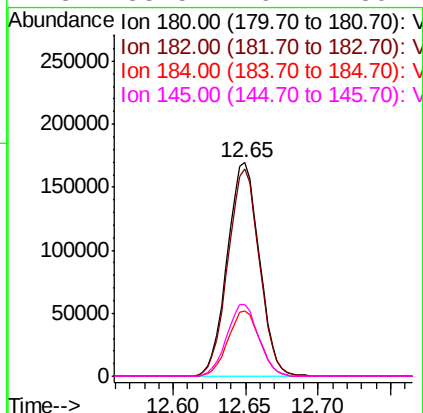
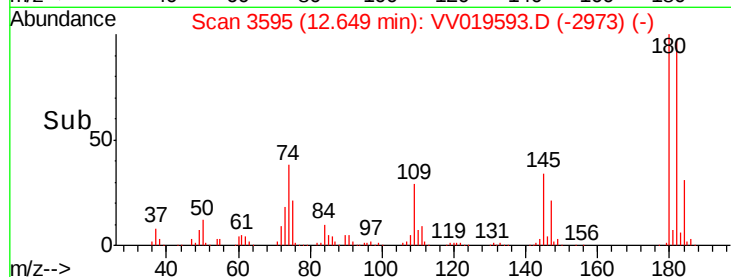
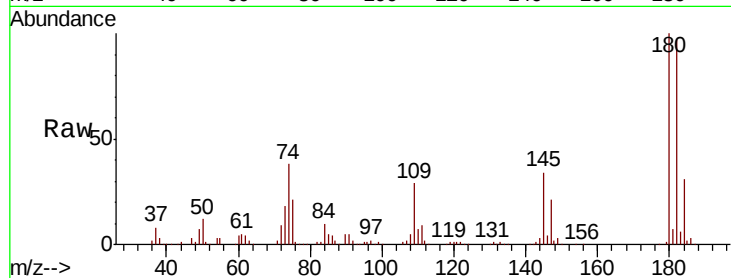




#67
 1,3,5-Trichlorobenzene
 Concen: 47.952 ug/L
 RT: 12.65 min Scan# 3595
 Delta R.T. 0.00 min
 Lab File: VV019593.D
 Acq: 13 Dec 2020 06:52

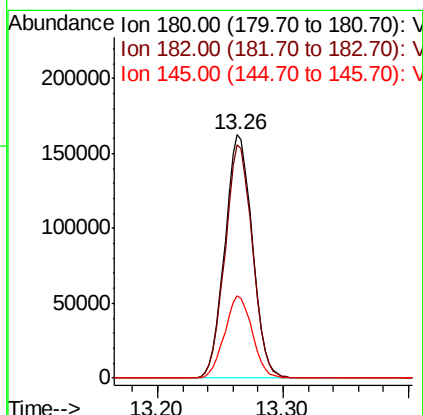
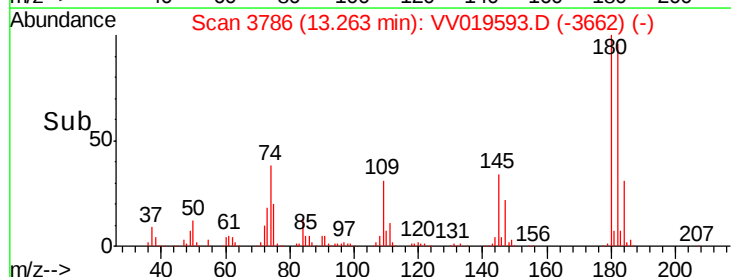
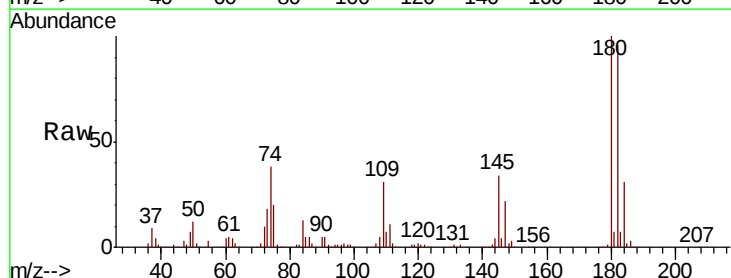
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05086

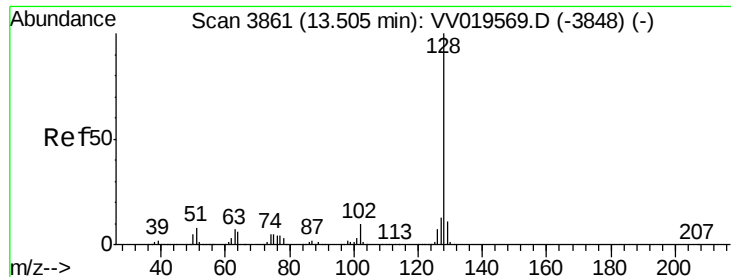
Tot Ion	Ratio	Lower	Upper
180	100		
182	95.2	75.8	113.6
184	30.2	23.9	35.9
145	33.5	26.2	39.2



#68
 1,2,4-trichlorobenzene
 Concen: 48.645 ug/L
 RT: 13.26 min Scan# 3786
 Delta R.T. 0.00 min
 Lab File: VV019593.D
 Acq: 13 Dec 2020 06:52

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.7	76.5	114.7
145	33.9	27.0	40.6





#69

Naphthalene

Concen: 55.827 ug/L

RT: 13.50 min Scan# 3861

Delta R.T. 0.00 min

Lab File: VV019593.D

Acq: 13 Dec 2020 06:52

Instrument :

MSVOA_V

ClientSampleId :

VSTD05086

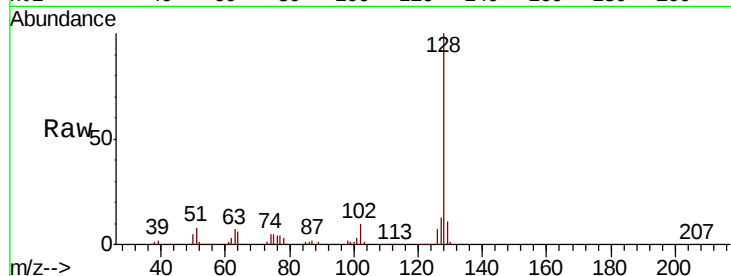
Tot Ion:128 Resp: 983798

Ion Ratio Lower Upper

128 100

127 13.0 10.3 15.5

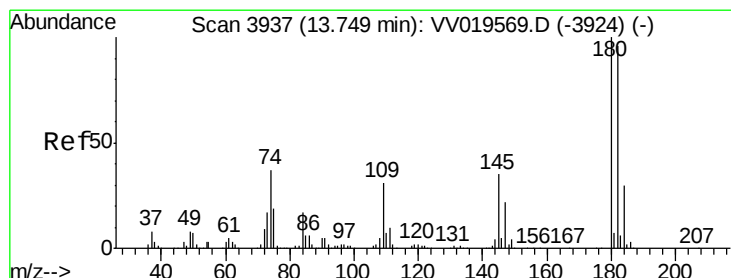
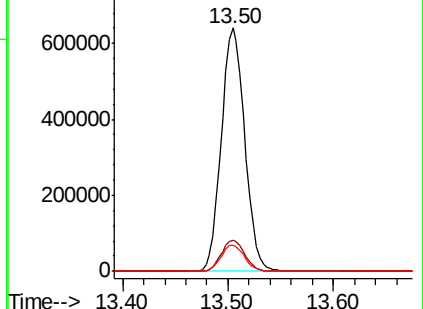
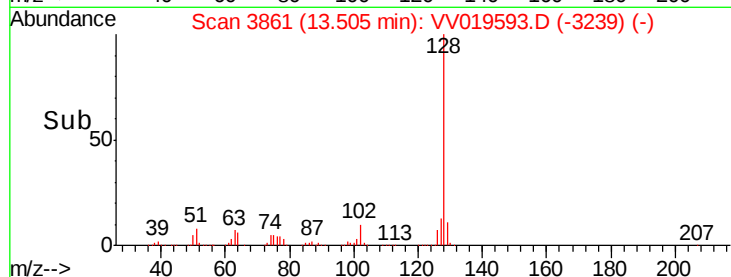
129 10.9 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 52.083 ug/L

RT: 13.75 min Scan# 3936

Delta R.T. -0.00 min

Lab File: VV019593.D

Acq: 13 Dec 2020 06:52

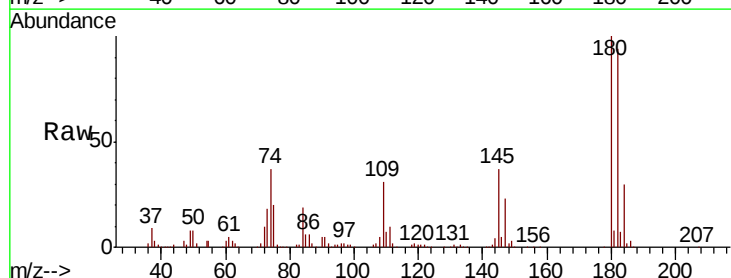
Tgt Ion:180 Resp: 258311

Ion Ratio Lower Upper

180 100

182 94.1 75.8 113.6

145 36.0 29.1 43.7



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

