

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV120320\
 Data File : VV019458.D
 Acq On : 03 Dec 2020 15:03
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BFB99

Quant Time: Dec 04 07:59:52 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM112320WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Dec 03 05:50:19 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	380715	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	375403	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	205637	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	180585	47.49	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	94.98%
7) Chloroethane-d5	1.57	69	145124	46.89	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	93.78%
11) 1,1-Dichloroethene-d2	2.12	63	348828	51.54	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	103.08%
21) 2-Butanone-d5	3.89	46	206998	89.32	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	89.32%
24) Chloroform-d	4.37	84	320108	52.08	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	104.16%
26) 1,2-Dichloroethane-d4	5.05	65	212779	52.88	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	105.76%
32) Benzene-d6	5.07	84	626079	56.41	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	112.82%
36) 1,2-Dichloropropane-d6	6.09	67	205267	55.58	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	111.16%
41) Toluene-d8	7.33	98	561501	56.47	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	112.94%
43) trans-1,3-Dichloropropene-	7.64	79	102691	57.57	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	115.14%
47) 2-Hexanone-d5	8.10	63	132558	91.10	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	91.10%
57) 1,1,2,2-Tetrachloroethane-	10.23	84	250008	52.30	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	104.60%
64) 1,2-Dichlorobenzene-d4	11.64	152	204847	51.30	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	102.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	129493	42.081	ug/L 99
3) Chloromethane	1.25	50	154741	37.392	ug/L 97
5) Vinyl chloride	1.32	62	161510	40.846	ug/L 100
6) Bromomethane	1.52	94	113712	44.111	ug/L 98
8) Chloroethane	1.59	64	106838	42.454	ug/L 100
9) Trichlorofluoromethane	1.76	101	225712	45.463	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	131998	49.441	ug/L 96
12) 1,1-Dichloroethene	2.13	96	125315	45.085	ug/L 79
13) Acetone	2.17	43	211991	119.632	ug/L 96
14) Carbon disulfide	2.31	76	383326	47.513	ug/L 99
15) Methyl Acetate	2.44	43	182222	50.788	ug/L 96
16) Methylene chloride	2.52	84	151177	46.956	ug/L 93
17) trans-1,2-Dichloroethene	2.78	96	137385	49.974	ug/L 96
18) Methyl tert-butyl Ether	2.78	73	452255	51.734	ug/L 97
19) 1,1-Dichloroethane	3.21	63	286568	50.818	ug/L 99
20) cis-1,2-Dichloroethene	3.93	96	147705	48.891	ug/L 94
22) 2-Butanone	3.97	43	271894	115.695	ug/L 95

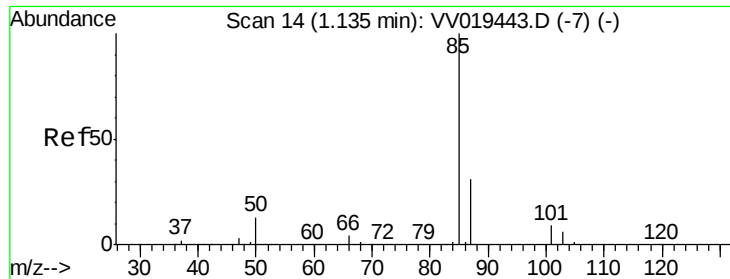
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV120320\
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 Quant Title : VOC Analysis
 QLast Update : Thu Dec 03 05:50:19 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.27	128	74075	46.297	ug/L	90
25) Chloroform	4.40	83	279327	49.002	ug/L	98
27) 1,2-Dichloroethane	5.15	62	230568	51.550	ug/L	97
29) Cyclohexane	4.70	56	242065	61.598	ug/L	96
30) 1,1,1-Trichloroethane	4.63	97	239084	52.725	ug/L	98
31) Carbon tetrachloride	4.85	117	203567	52.292	ug/L	99
33) Benzene	5.12	78	596834	53.125	ug/L	100
34) Trichloroethene	5.93	95	160768	51.315	ug/L	96
35) Methylcyclohexane	6.15	83	225997	61.302	ug/L	99
37) 1,2-Dichloropropane	6.19	63	168582	54.404	ug/L	99
38) Bromodichloromethane	6.53	83	211575	51.499	ug/L	99
39) cis-1,3-Dichloropropene	7.05	75	255793	55.884	ug/L	100
40) 4-Methyl-2-pentanone	7.24	43	488127	111.713	ug/L	99
42) Toluene	7.41	91	620123	53.211	ug/L	100
44) trans-1,3-Dichloropropene	7.67	75	251334	55.126	ug/L	99
45) 1,1,2-Trichloroethane	7.86	97	148610	51.215	ug/L	99
46) Tetrachloroethene	7.99	164	107706	49.500	ug/L	93
48) 2-Hexanone	8.15	43	393255	113.634	ug/L	98
49) Dibromochloromethane	8.26	129	154528	48.186	ug/L	99
50) 1,2-Dibromoethane	8.37	107	151654	49.247	ug/L	99
51) Chlorobenzene	8.90	112	388044	50.472	ug/L	99
52) Ethylbenzene	9.03	91	686599	54.898	ug/L	98
53) m,p-Xylene	9.16	106	249554	53.929	ug/L	97
54) o-xylene	9.56	106	236916	52.581	ug/L	97
55) Styrene	9.58	104	435358	53.976	ug/L	100
56) Isopropylbenzene	9.95	105	649518	55.022	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.26	83	224836	50.693	ug/L	100
59) 1,2,3-Trichloropropane	10.29	75	199603	49.037	ug/L	98
61) Bromoform	9.75	173	109669	46.649	ug/L	100
62) 1,3-Dichlorobenzene	11.20	146	304055	50.825	ug/L	98
63) 1,4-Dichlorobenzene	11.29	146	312575	49.711	ug/L	98
65) 1,2-Dichlorobenzene	11.66	146	301753	49.130	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.45	75	52646	49.535	ug/L	94
67) 1,3,5-Trichlorobenzene	12.67	180	229116	52.612	ug/L	99
68) 1,2,4-trichlorobenzene	13.28	180	204773	53.111	ug/L	99
69) Naphthalene	13.52	128	527463	53.801	ug/L	100
70) 1,2,3-Trichlorobenzene	13.77	180	210244	52.170	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 42.081 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV019458.D

Acq: 03 Dec 2020 15:03

Instrument :

MSVOA_V

ClientSampleId :

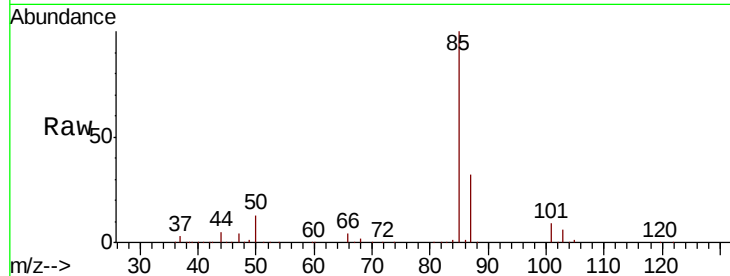
BFB99

Tot Ion: 85 Resp: 129493

Ion Ratio Lower Upper

85 100

87 32.2 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0

1.14

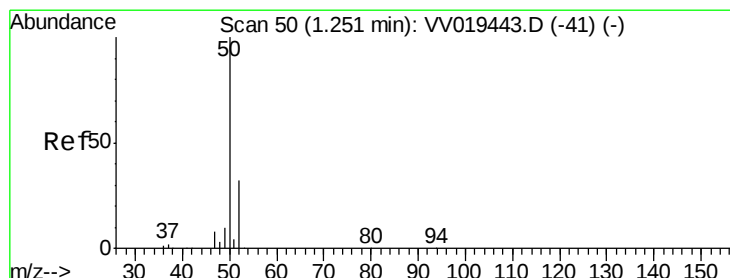
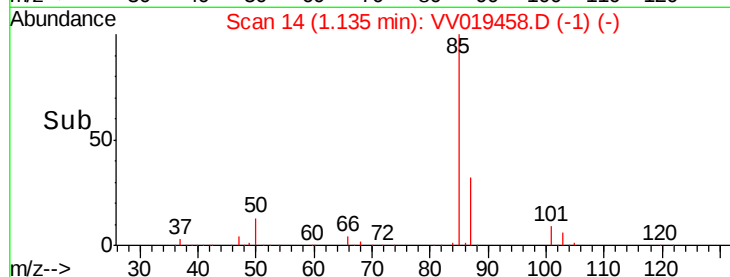
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 37.392 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV019458.D

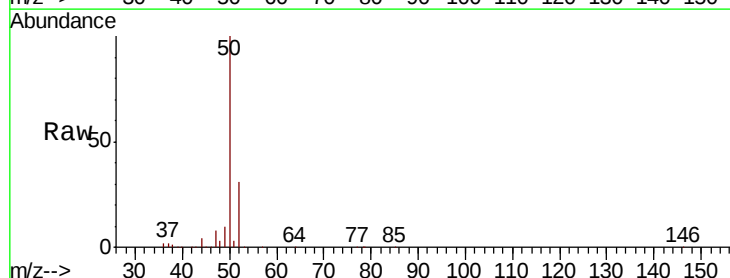
Acq: 03 Dec 2020 15:03

Tgt Ion: 50 Resp: 154741

Ion Ratio Lower Upper

50 100

52 31.4 23.0 42.8



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0

1.25

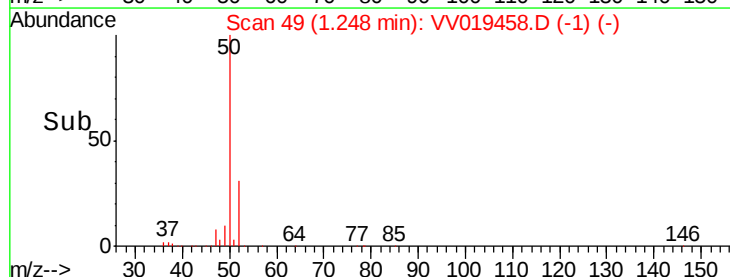
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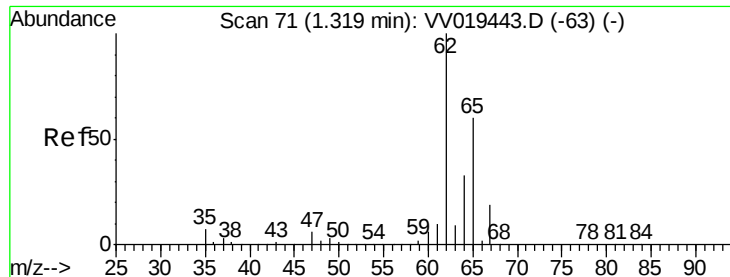
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 40.846 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV019458.D

Acq: 03 Dec 2020 15:03

Instrument :

MSVOA_V

ClientSampleId :

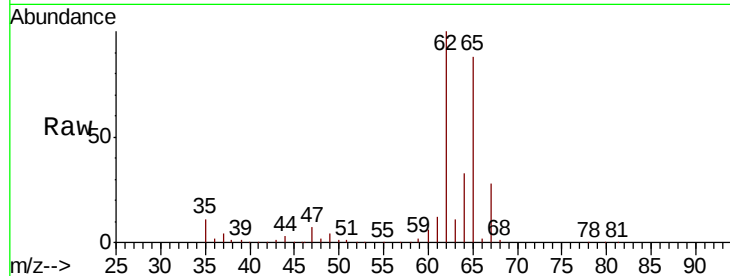
BFB99

Tot Ion: 62 Resp: 161510

Ion Ratio Lower Upper

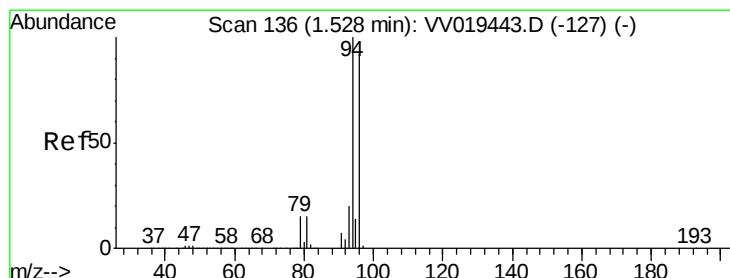
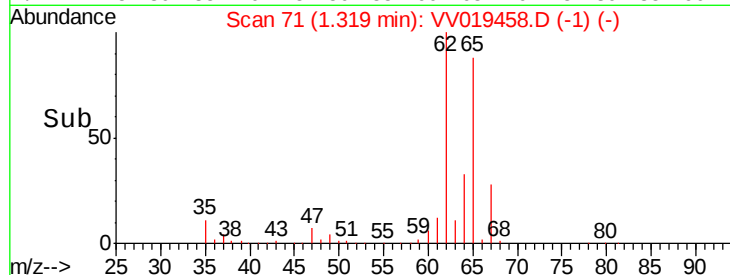
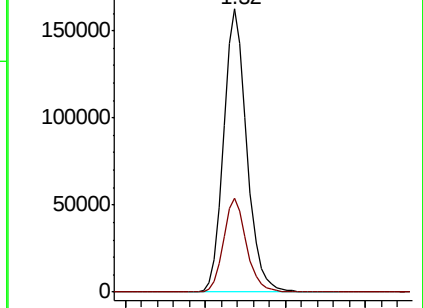
62 100

64 33.1 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 44.111 ug/L

RT: 1.52 min Scan# 135

Delta R.T. -0.00 min

Lab File: VV019458.D

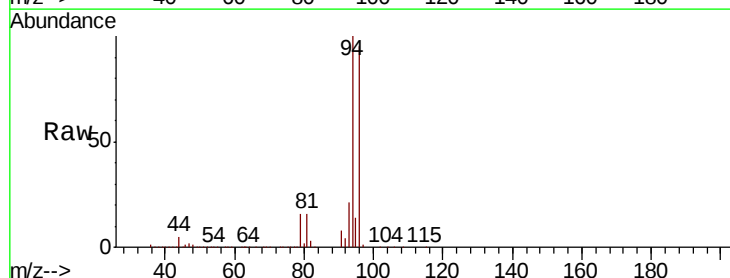
Acq: 03 Dec 2020 15:03

Tgt Ion: 94 Resp: 113712

Ion Ratio Lower Upper

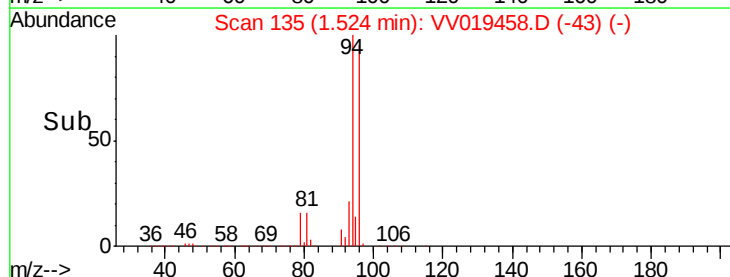
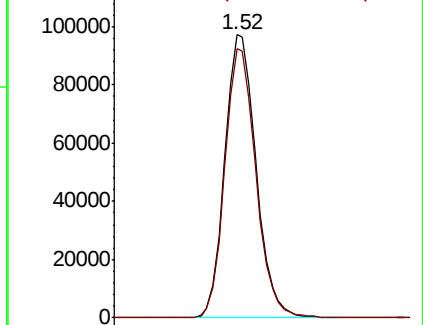
94 100

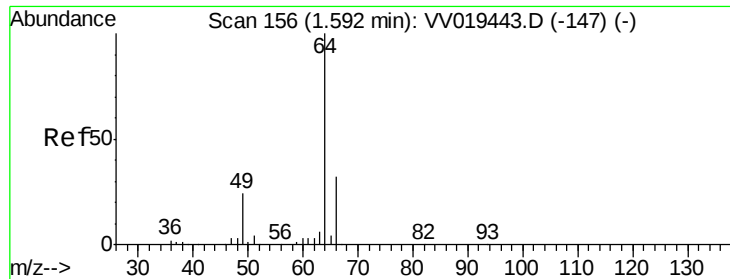
96 95.3 65.5 121.7



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

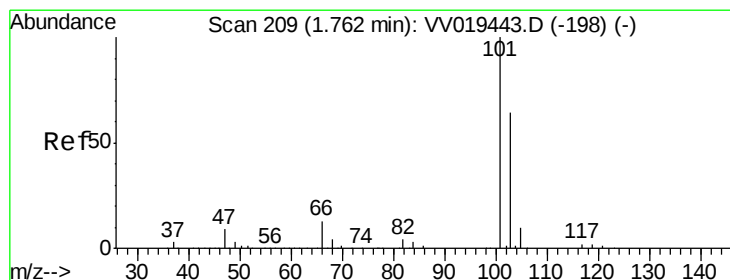
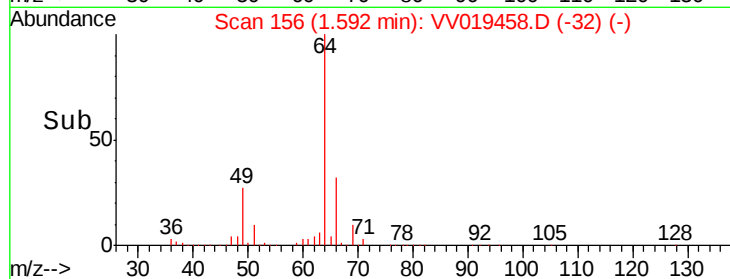
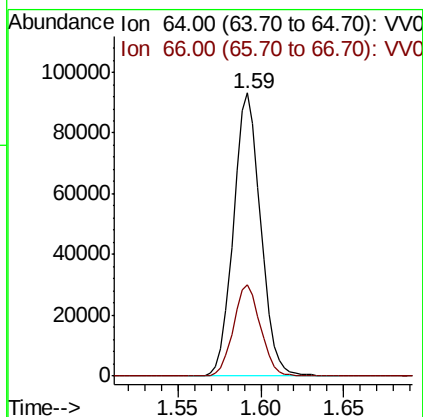
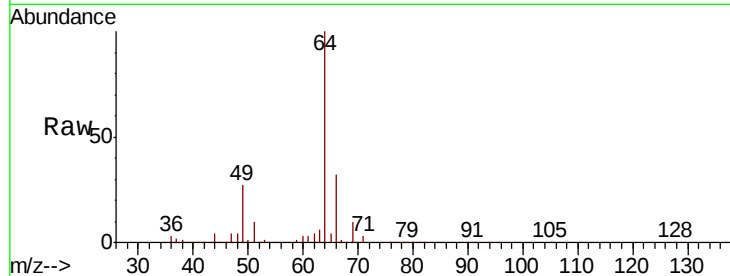




#8
Chloroethane
Concen: 42.454 ug/L
RT: 1.59 min Scan# 156
Delta R.T. 0.00 min
Lab File: VV019458.D
Acq: 03 Dec 2020 15:03

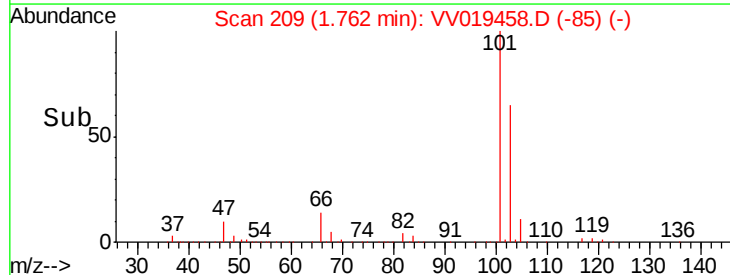
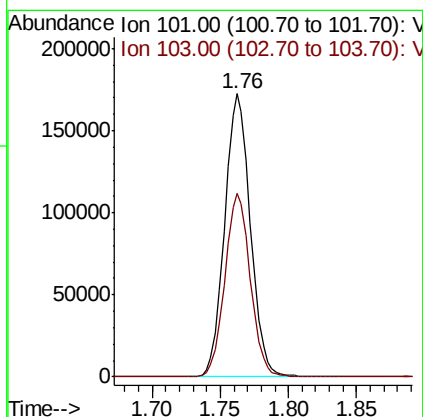
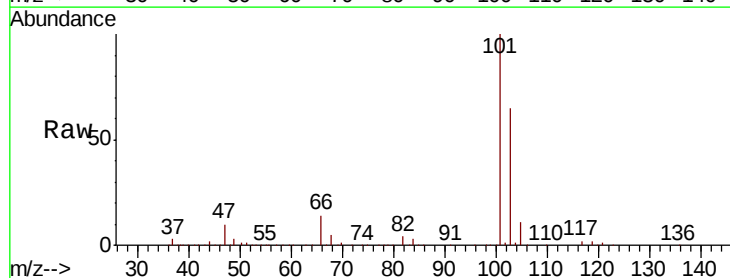
Instrument :
MSVOA_V
ClientSampled :
BFB99

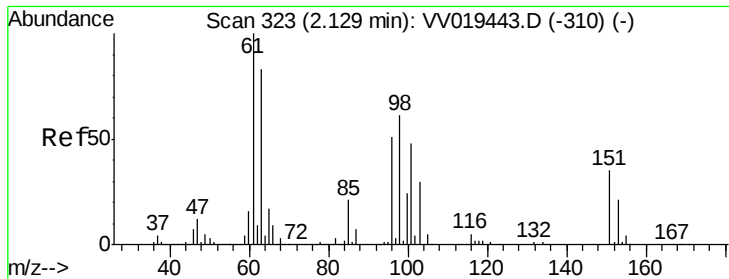
Tot Ion: 64 Resp: 106838
Ion Ratio Lower Upper
64 100
66 32.3 22.6 42.0



#9
Trichlorofluoromethane
Concen: 45.463 ug/L
RT: 1.76 min Scan# 209
Delta R.T. 0.00 min
Lab File: VV019458.D
Acq: 03 Dec 2020 15:03

Tgt Ion: 101 Resp: 225712
Ion Ratio Lower Upper
101 100
103 64.0 51.8 77.8





#10

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

Concen: 49.441 ug/L

RT: 2.13 min Scan# 323

Delta R.T. 0.00 min

Lab File: VV019458.D

Acq: 03 Dec 2020 15:03

Instrument :

MSVOA_V

ClientSampleId :

BFB99

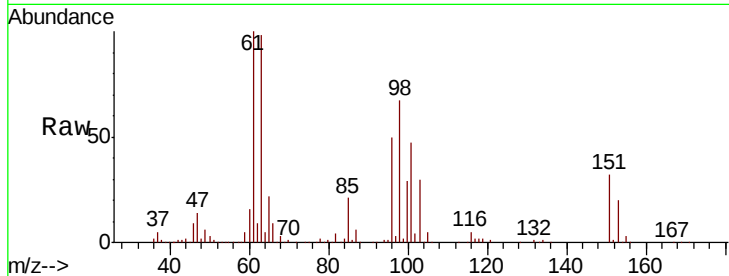
Tot Ion:101 Resp: 131998

Ion Ratio Lower Upper

101 100

85 45.4 35.5 53.3

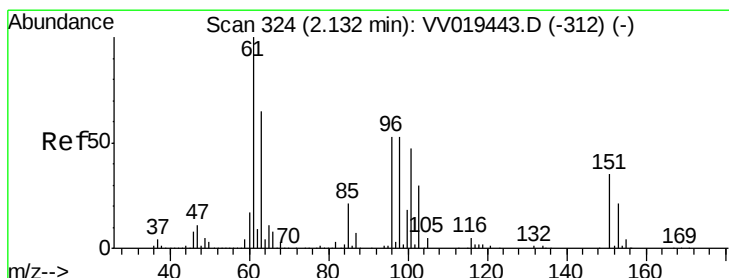
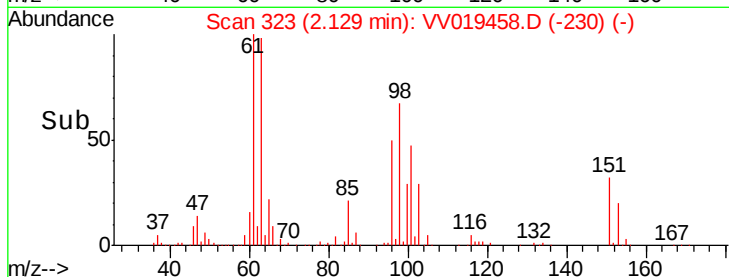
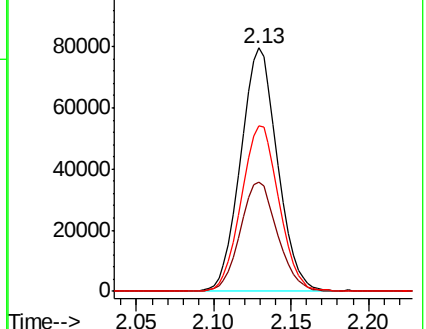
151 69.6 58.9 88.3



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: 45.085 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV019458.D

Acq: 03 Dec 2020 15:03

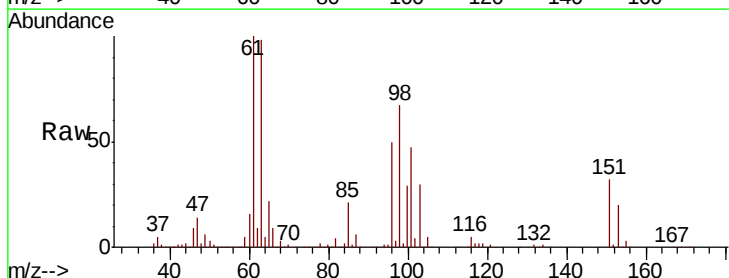
Tgt Ion: 96 Resp: 125315

Ion Ratio Lower Upper

96 100

61 198.7 130.0 241.4

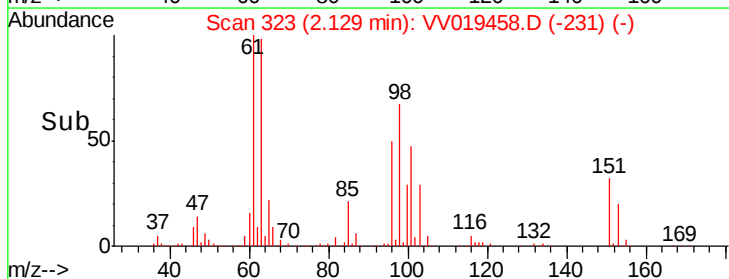
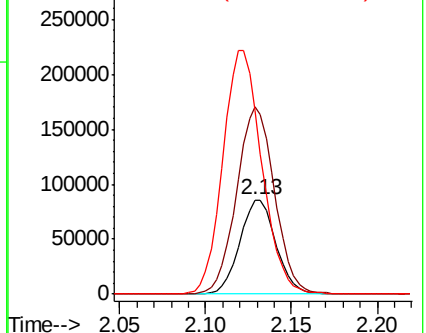
63 194.6 105.1 195.3

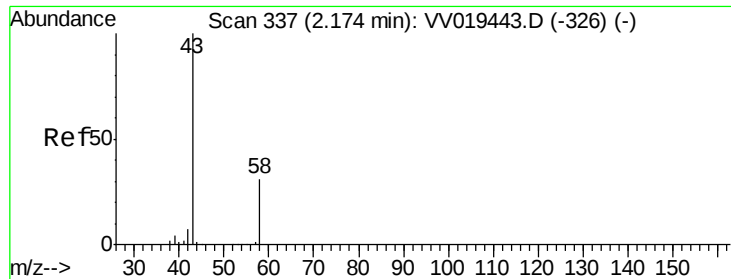


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 119.632 ug/L

RT: 2.17 min Scan# 337

Delta R.T. 0.00 min

Lab File: VV019458.D

Acq: 03 Dec 2020 15:03

Instrument :

MSVOA_V

ClientSampleId :

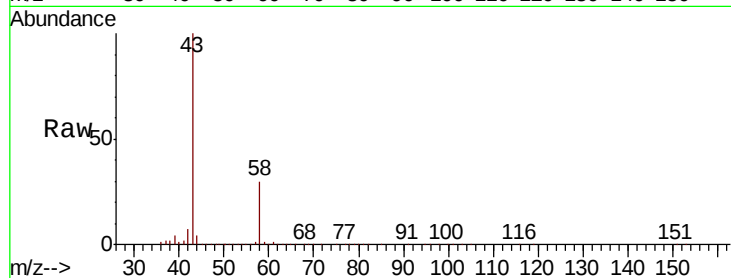
BFB99

Tot Ion: 43 Resp: 211991

Ion Ratio Lower Upper

43 100

58 31.2 0.0 66.4



Abundance Ion 43.00 (42.70 to 43.70): VV019443.D (-326) (-)

Ion 58.00 (57.70 to 58.70): VV019443.D (-326) (-)

2.17

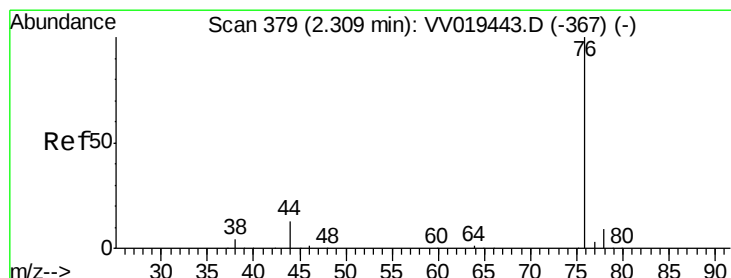
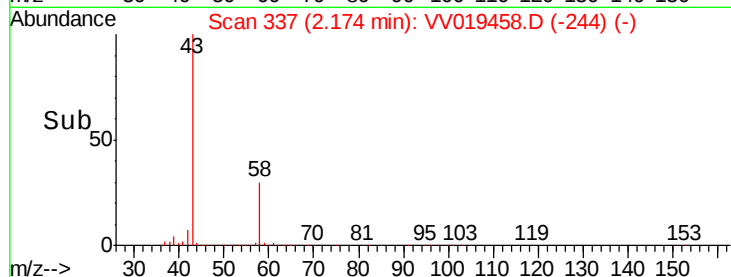
150000

100000

50000

0

Time--> 2.10 2.15 2.20 2.25



#14

Carbon disulfide

Concen: 47.513 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.00 min

Lab File: VV019458.D

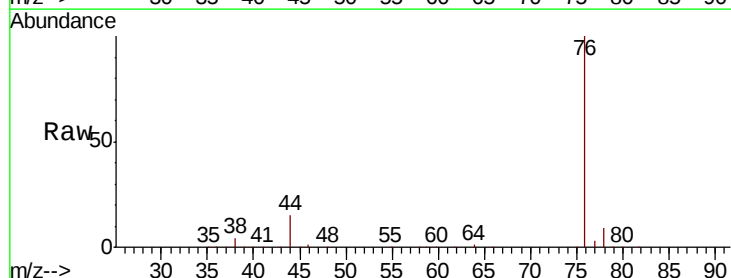
Acq: 03 Dec 2020 15:03

Tgt Ion: 76 Resp: 383326

Ion Ratio Lower Upper

76 100

78 8.7 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VV019443.D (-367) (-)

Ion 78.00 (77.70 to 78.70): VV019443.D (-367) (-)

2.31

300000

250000

200000

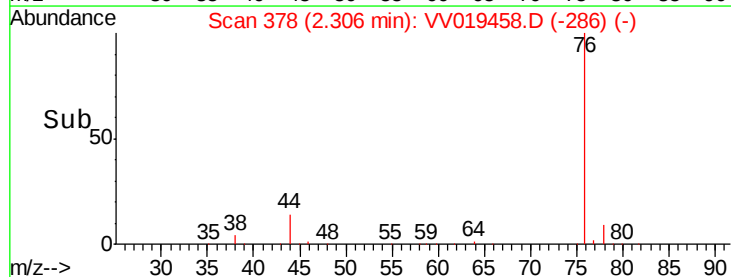
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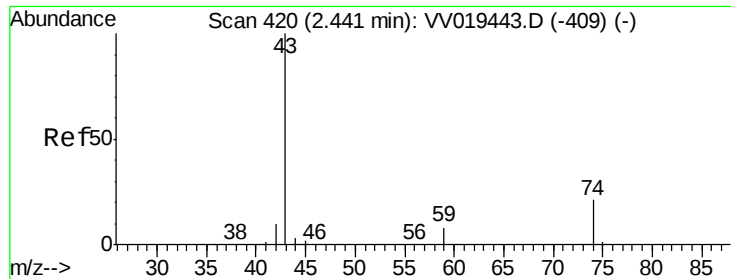
100000

50000

0

Time--> 2.20 2.25 2.30 2.35 2.40





#15

Methvl Acetate

Concen: 50.788 ug/L

RT: 2.44 min Scan# 420

Delta R.T. 0.00 min

Lab File: VV019458.D

Acq: 03 Dec 2020 15:03

Instrument :

MSVOA_V

ClientSampleId :

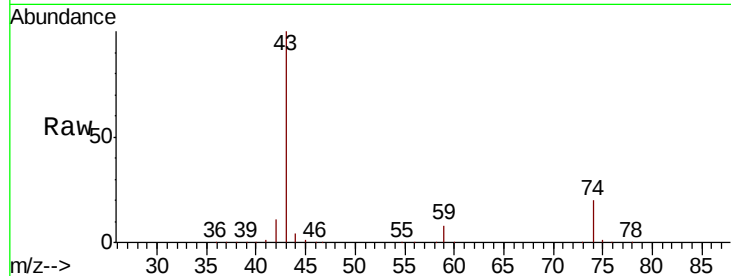
BFB99

Tot Ion: 43 Resp: 182222

Ion Ratio Lower Upper

43 100

74 20.3 17.8 26.8



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0

2.44

120000

100000

80000

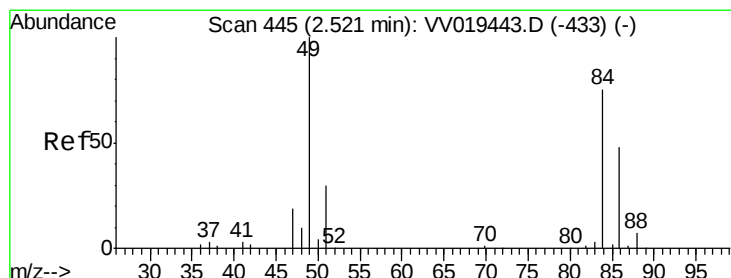
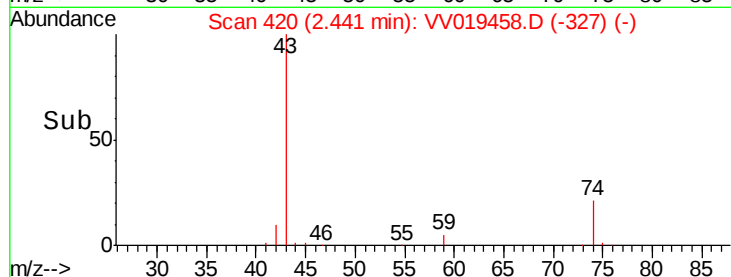
60000

40000

20000

0

Time-->



#16

Methylene chloride

Concen: 46.956 ug/L

RT: 2.52 min Scan# 445

Delta R.T. 0.00 min

Lab File: VV019458.D

Acq: 03 Dec 2020 15:03

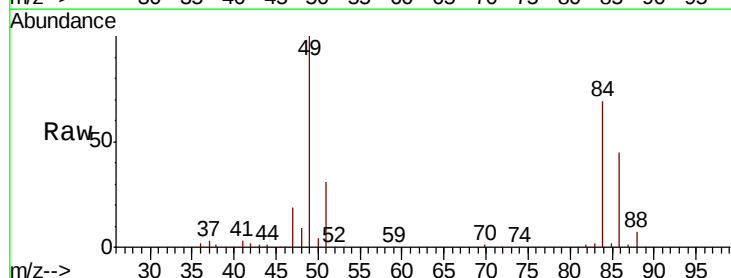
Tgt Ion: 84 Resp: 151177

Ion Ratio Lower Upper

84 100

86 65.0 45.8 85.2

49 144.0 92.0 170.9



Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.00 (48.70 to 49.70): VV0

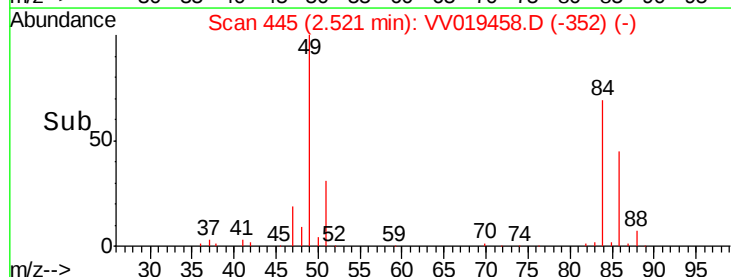
150000

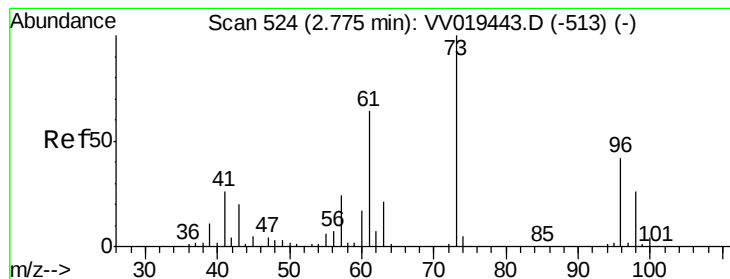
100000

50000

0

Time-->





#17

trans-1,2-Dichloroethene

Concen: 49.974 ug/L

RT: 2.78 min Scan# 524

Delta R.T. 0.00 min

Lab File: VV019458.D

Acq: 03 Dec 2020 15:03

Instrument :

MSVOA_V

ClientSampleID :

BFB99

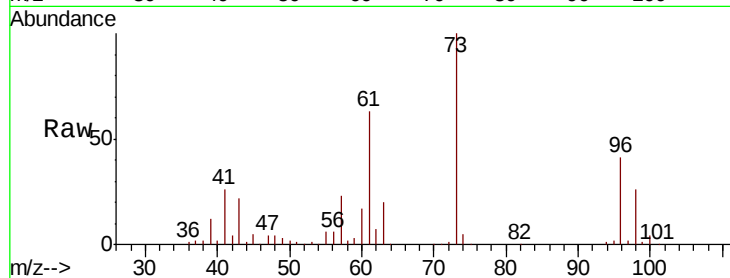
Tot Ion: 96 Resp: 137385

Ion Ratio Lower Upper

96 100

61 155.1 103.7 192.5

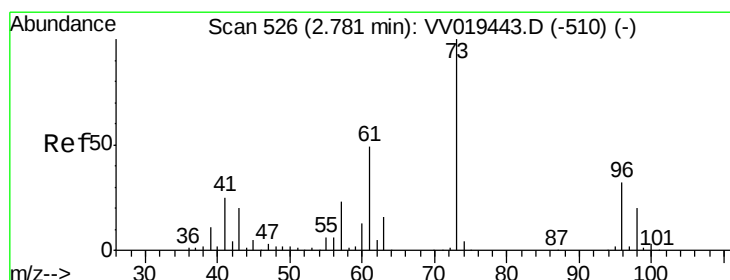
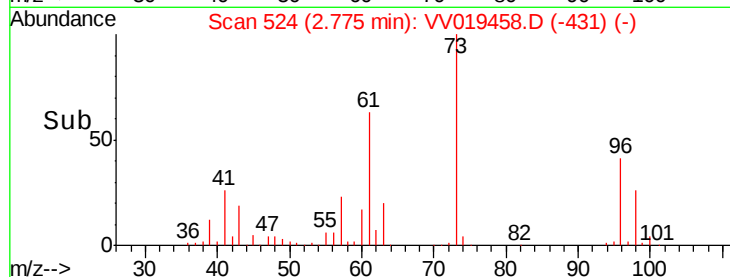
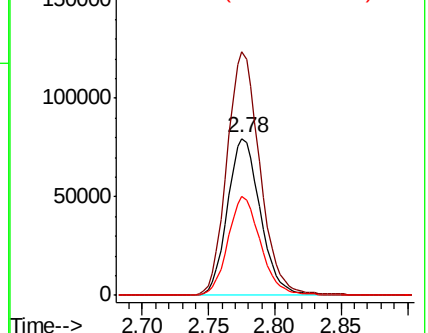
98 62.7 44.0 81.6



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: 51.734 ug/L

RT: 2.78 min Scan# 526

Delta R.T. 0.00 min

Lab File: VV019458.D

Acq: 03 Dec 2020 15:03

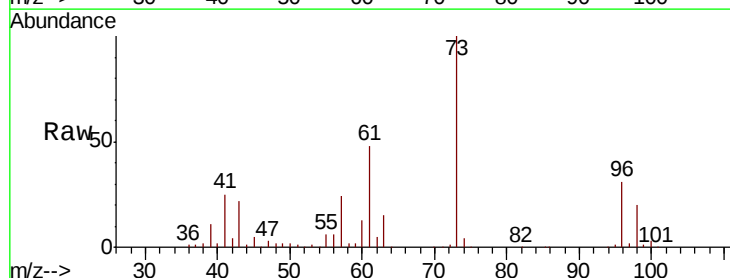
Tgt Ion: 73 Resp: 452255

Ion Ratio Lower Upper

73 100

43 21.6 15.6 23.4

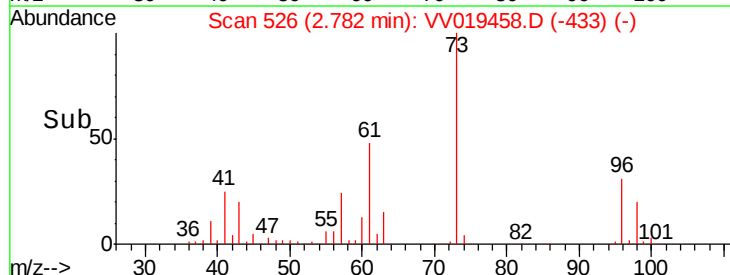
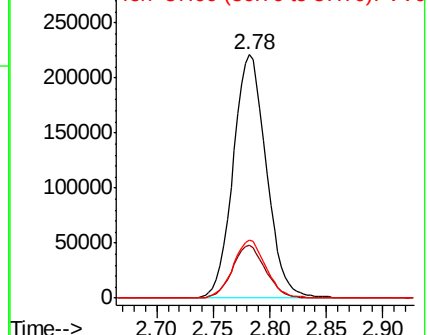
57 23.5 18.3 27.5

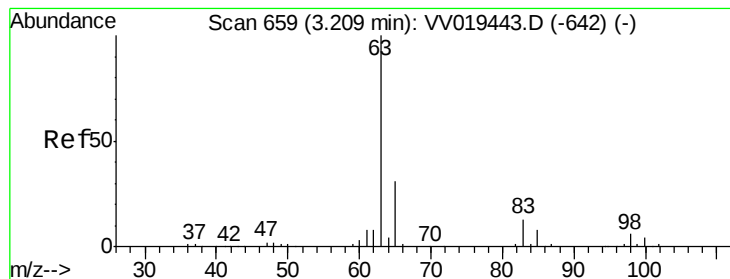


Abundance Ion 73.00 (72.70 to 73.70): VV0

Ion 43.00 (42.70 to 43.70): VV0

Ion 57.00 (56.70 to 57.70): VV0





#19

1,1-Dichloroethane

Concen: 50.818 ug/L

RT: 3.21 min Scan# 659

Delta R.T. 0.00 min

Lab File: VV019458.D

Acq: 03 Dec 2020 15:03

Instrument :

MSVOA_V

ClientSampleId :

BFB99

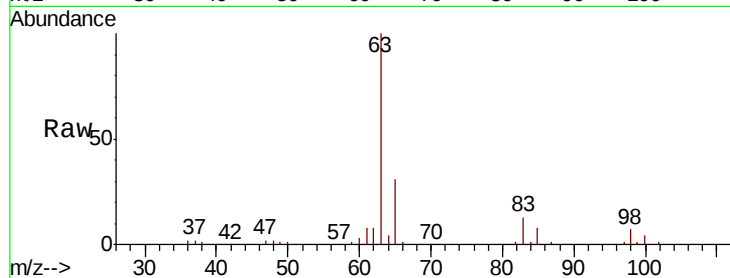
Tot Ion: 63 Resp: 286568

Ion Ratio Lower Upper

63 100

65 31.0 21.8 40.4

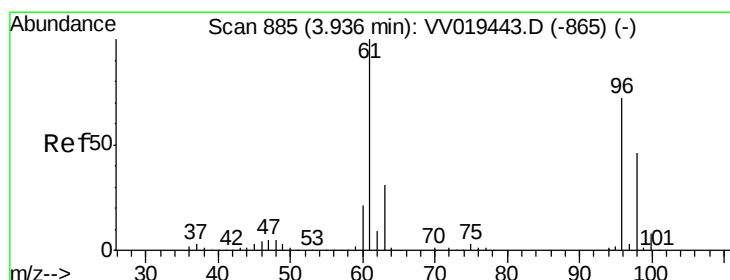
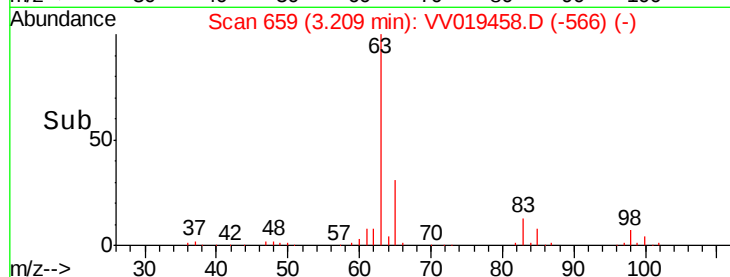
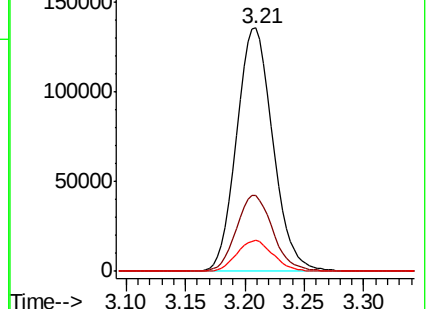
83 12.6 9.8 18.2



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: 48.891 ug/L

RT: 3.93 min Scan# 884

Delta R.T. -0.00 min

Lab File: VV019458.D

Acq: 03 Dec 2020 15:03

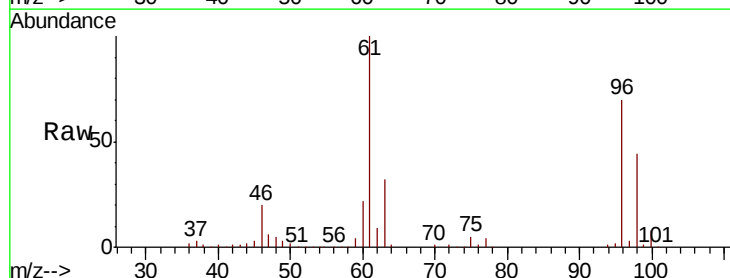
Tgt Ion: 96 Resp: 147705

Ion Ratio Lower Upper

96 100

61 143.3 95.5 177.3

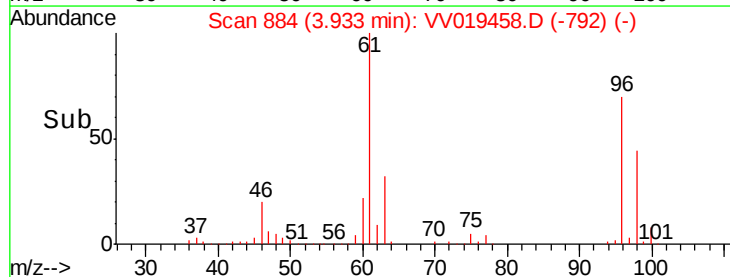
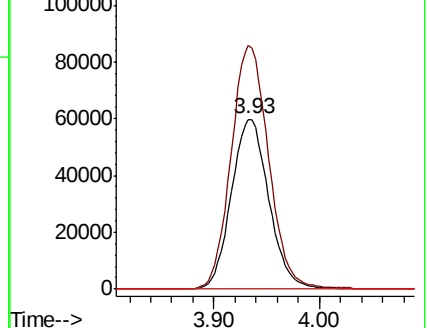
68 0.0 0.0 0.0

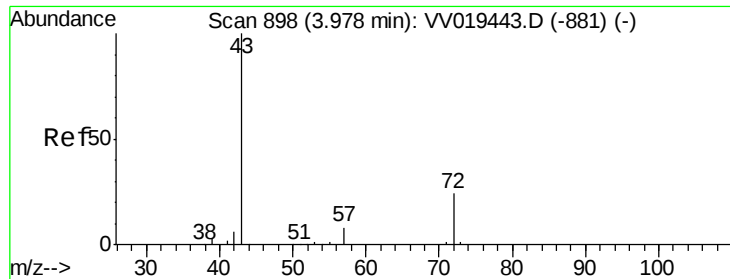


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 68.00 (67.70 to 68.70): VV0





#22

2-Butanone

Concen: 115.695 ug/L

RT: 3.97 min Scan# 897

Delta R.T. -0.00 min

Lab File: VV019458.D

Acq: 03 Dec 2020 15:03

Instrument :

MSVOA_V

ClientSampleId :

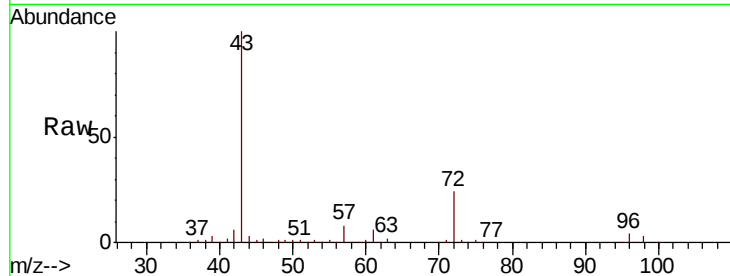
BFB99

Tot Ion: 43 Resp: 271894

Ion Ratio Lower Upper

43 100

72 23.0 12.7 38.1



Abundance Ion 43.00 (42.70 to 43.70): VV019443.D (-881) (-)

Ion 72.00 (71.70 to 72.70): VV019443.D (-881) (-)

3.97

100000

80000

60000

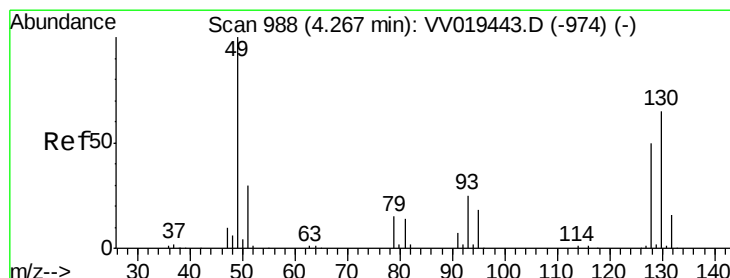
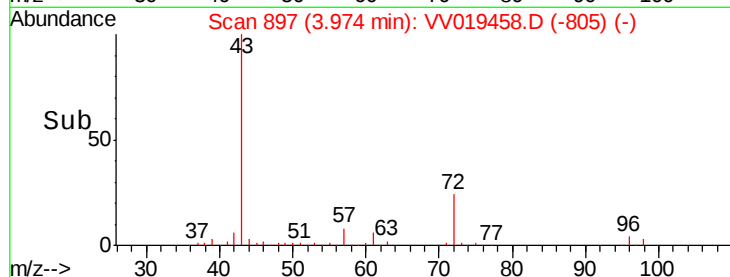
40000

20000

0

3.90 4.00 4.10

Time-->



#23

Bromochloromethane

Concen: 46.297 ug/L

RT: 4.27 min Scan# 989

Delta R.T. 0.00 min

Lab File: VV019458.D

Acq: 03 Dec 2020 15:03

Tgt Ion:128 Resp: 74075

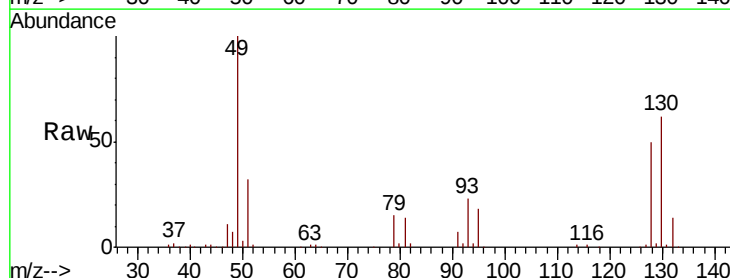
Ion Ratio Lower Upper

128 100

49 201.7 126.1 234.1

130 125.7 89.4 166.0

51 65.0 46.5 69.7



Abundance Ion 128.00 (127.70 to 128.70): VV019443.D (-974) (-)

Ion 49.00 (48.70 to 49.70): VV019443.D (-974) (-)

Ion 130.00 (129.70 to 130.70): VV019443.D (-974) (-)

Ion 51.00 (50.70 to 51.70): VV019443.D (-974) (-)

4.27

80000

60000

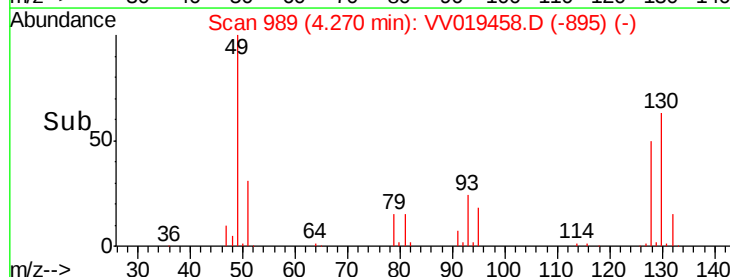
40000

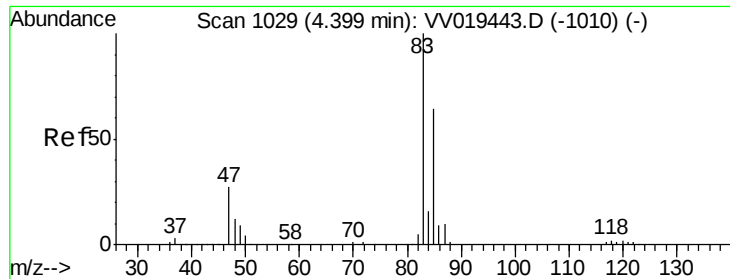
20000

0

4.20 4.25 4.30 4.35

Time-->

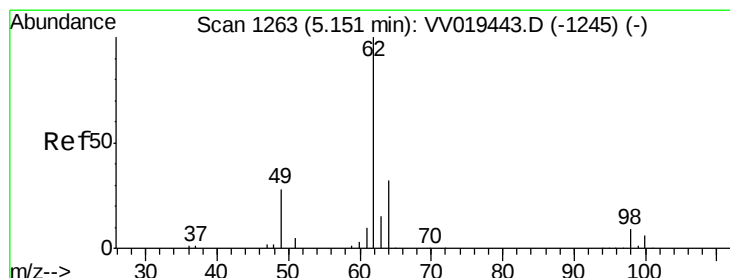
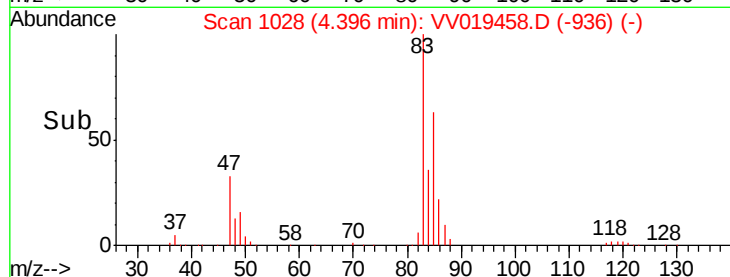
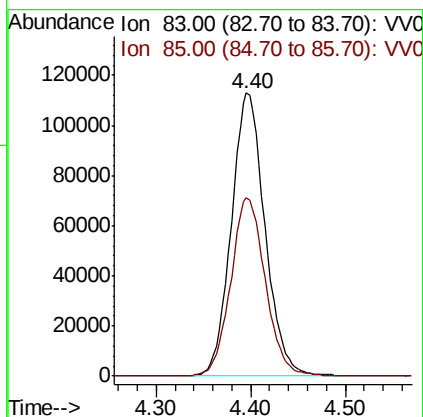
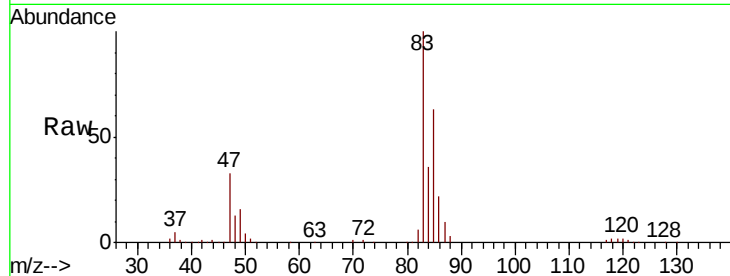




#25
Chloroform
Concen: 49.002 ug/L
RT: 4.40 min Scan# 1028
Delta R.T. -0.00 min
Lab File: VV019458.D
Acq: 03 Dec 2020 15:03

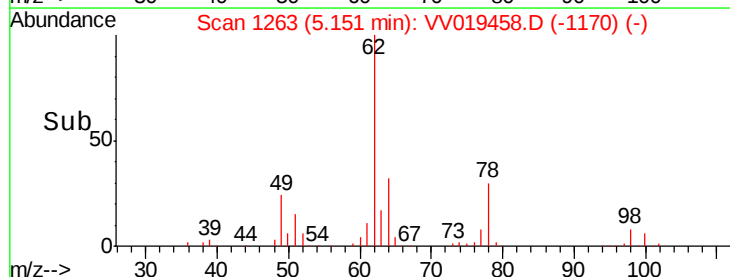
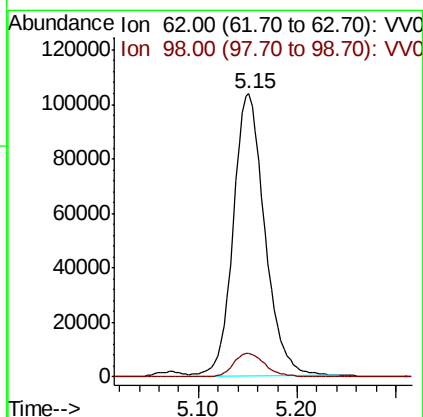
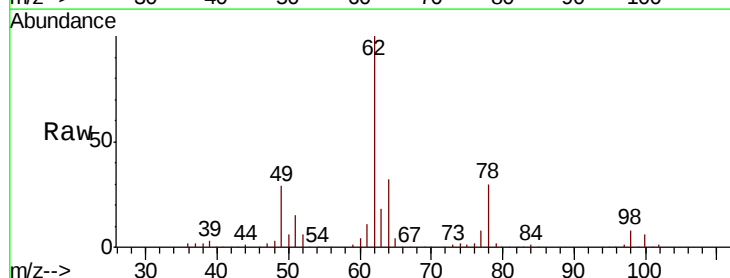
Instrument :
MSVOA_V
ClientSampleId :
BFB99

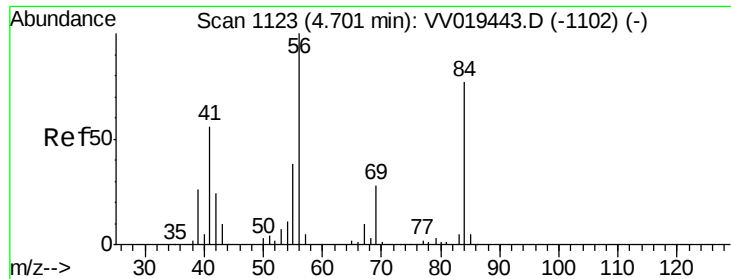
Tot Ion: 83 Resp: 279327
Ion Ratio Lower Upper
83 100
85 63.0 45.1 83.9



#27
1,2-Dichloroethane
Concen: 51.550 ug/L
RT: 5.15 min Scan# 1263
Delta R.T. 0.00 min
Lab File: VV019458.D
Acq: 03 Dec 2020 15:03

Tgt Ion: 62 Resp: 230568
Ion Ratio Lower Upper
62 100
98 8.3 7.6 11.4

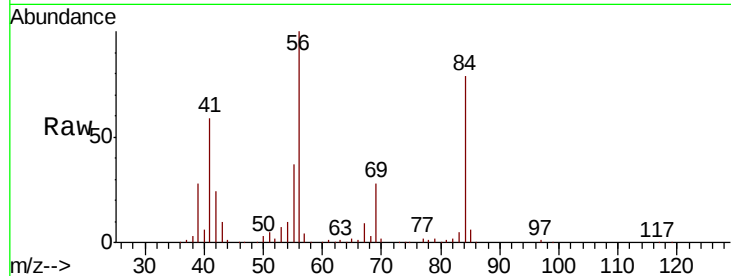




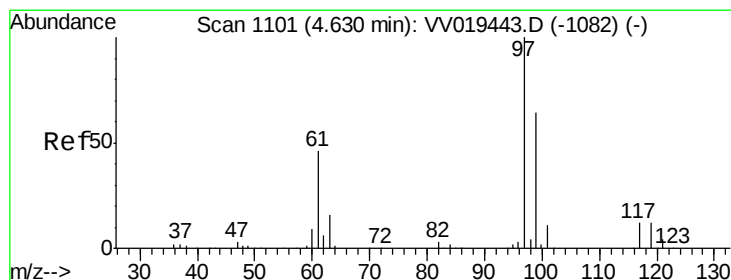
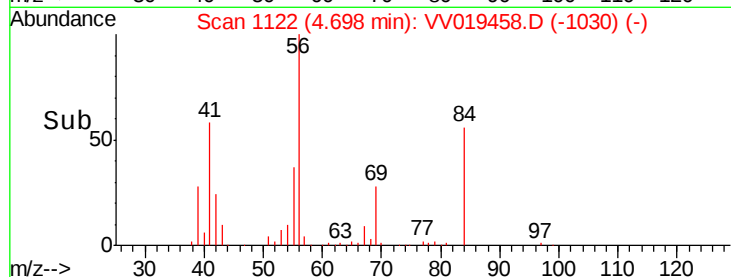
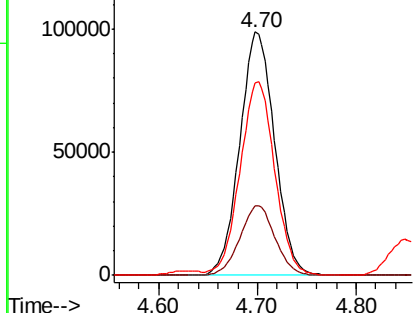
#29
Cyclohexane
Concen: 61.598 ug/L
RT: 4.70 min Scan# 1122
Delta R.T. -0.00 min
Lab File: VV019458.D
Acq: 03 Dec 2020 15:03

Instrument :
MSVOA_V
ClientSampleId :
BFB99

Tot Ion: 56 Resp: 242065
Ion Ratio Lower Upper
56 100
69 28.7 23.8 35.8
84 79.1 67.0 100.6

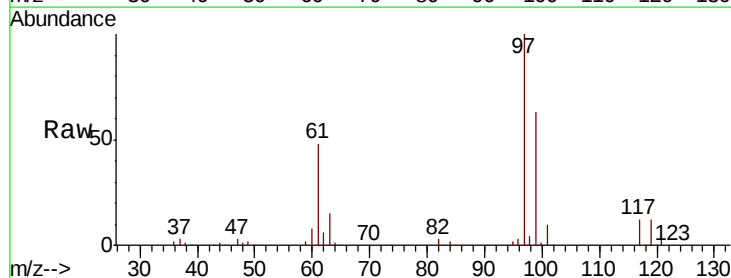


Abundance Ion 56.00 (55.70 to 56.70): VV0
Ion 69.00 (68.70 to 69.70): VV0
Ion 84.00 (83.70 to 84.70): VV0

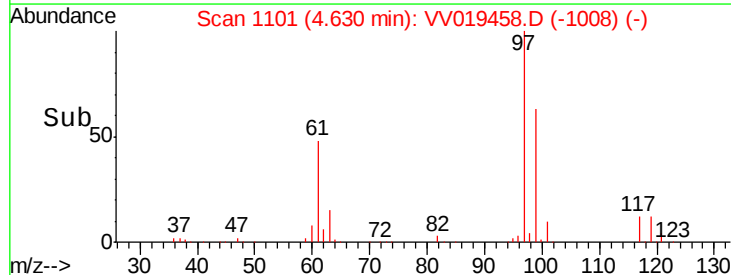
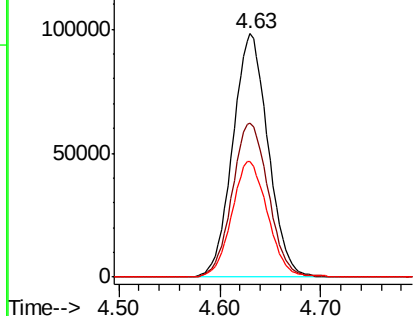


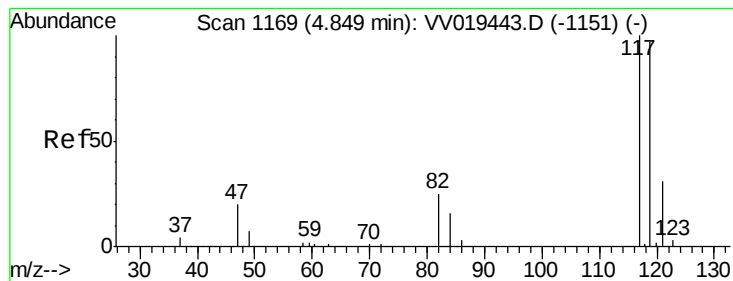
#30
1,1,1-Trichloroethane
Concen: 52.725 ug/L
RT: 4.63 min Scan# 1101
Delta R.T. 0.00 min
Lab File: VV019458.D
Acq: 03 Dec 2020 15:03

Tgt Ion: 97 Resp: 239084
Ion Ratio Lower Upper
97 100
99 64.7 51.0 76.6
61 48.1 36.9 55.3



Abundance Ion 97.00 (96.70 to 97.70): VV0
Ion 99.00 (98.70 to 99.70): VV0
Ion 61.05 (60.75 to 61.75): VV0





#31

Carbon tetrachloride

Concen: 52.292 ug/L

RT: 4.85 min Scan# 1169

Delta R.T. 0.00 min

Lab File: VV019458.D

Acq: 03 Dec 2020 15:03

Instrument :

MSVOA_V

ClientSampleId :

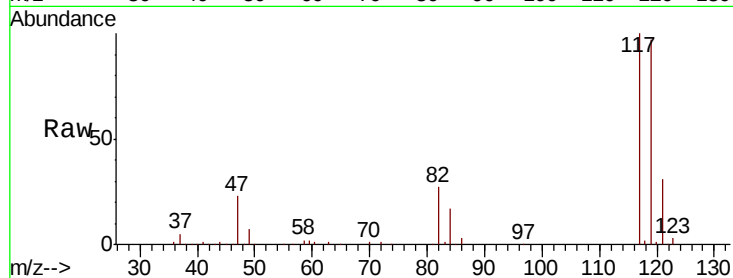
BFB99

Tot Ion:117 Resp: 203567

Ion Ratio Lower Upper

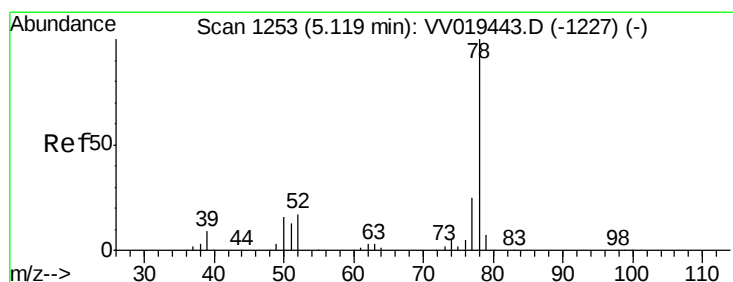
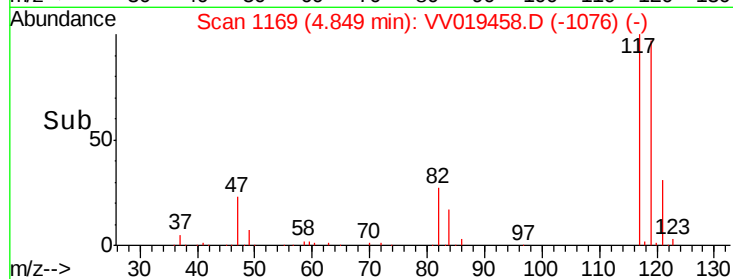
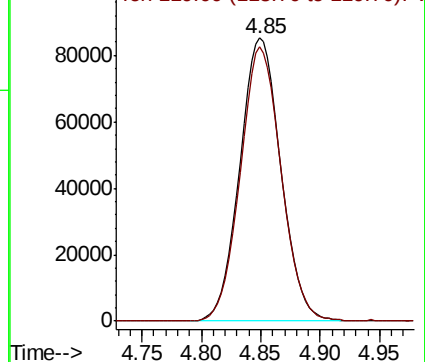
117 100

119 96.3 76.2 114.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 53.125 ug/L

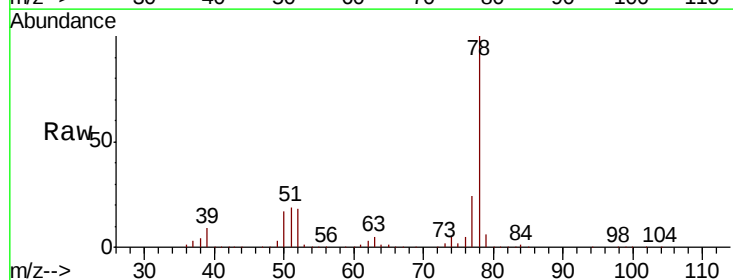
RT: 5.12 min Scan# 1253

Delta R.T. 0.00 min

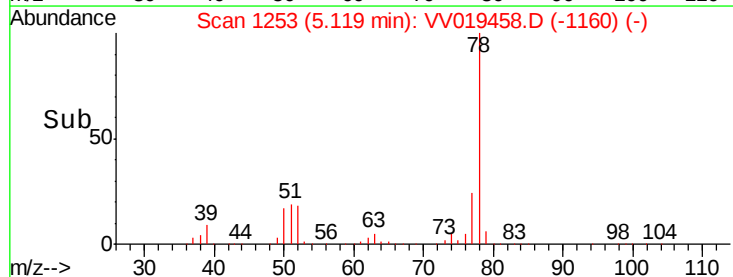
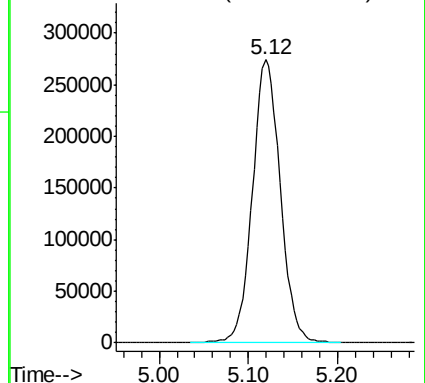
Lab File: VV019458.D

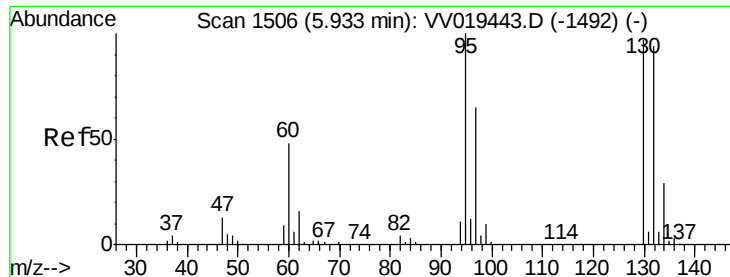
Acq: 03 Dec 2020 15:03

Tgt Ion: 78 Resp: 596834



Abundance Ion 78.00 (77.70 to 78.70): VV0





#34

Trichloroethene

Concen: 51.315 ug/L

RT: 5.93 min Scan# 1506

Delta R.T. 0.00 min

Lab File: VV019458.D

Acq: 03 Dec 2020 15:03

Instrument :

MSVOA_V

ClientSampleId :

BFB99

Tot Ion: 95 Resp: 160768

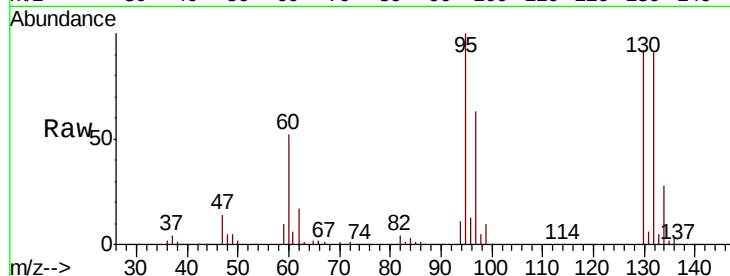
Ion Ratio Lower Upper

95 100

97 63.0 43.8 81.3

132 90.7 65.6 121.8

130 92.2 69.2 128.6

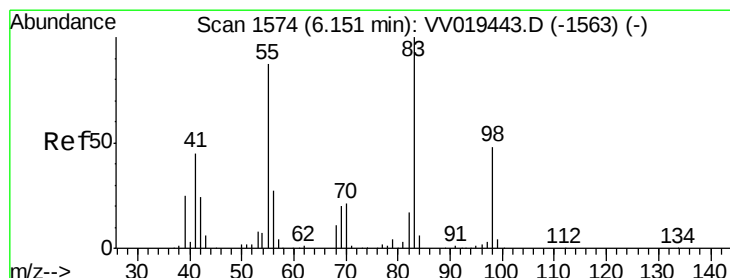
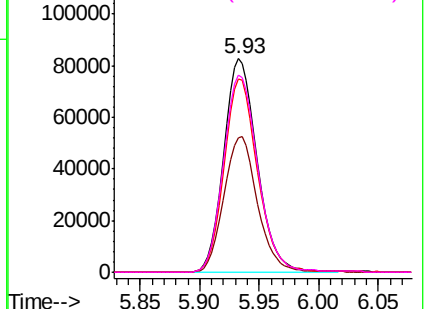
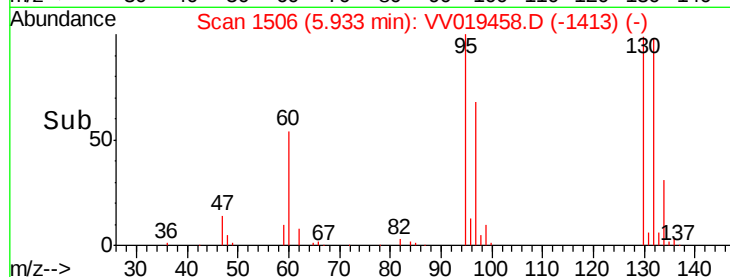


Abundance Ion 95.00 (94.70 to 95.70): VV0

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: 61.302 ug/L

RT: 6.15 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VV019458.D

Acq: 03 Dec 2020 15:03

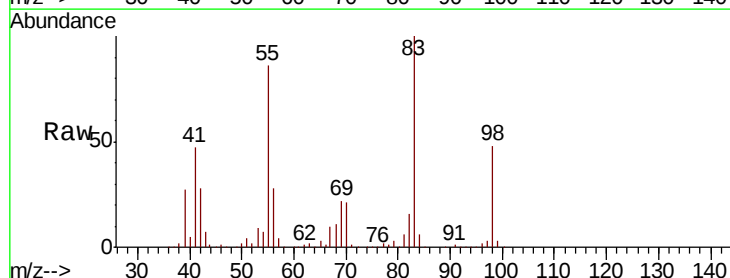
Tgt Ion: 83 Resp: 225997

Ion Ratio Lower Upper

83 100

55 85.2 67.4 101.2

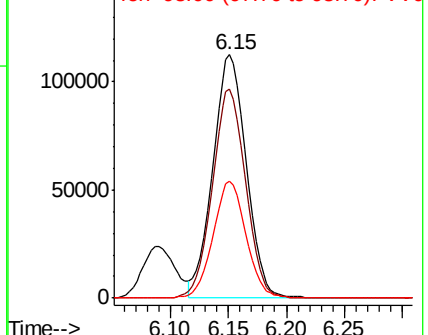
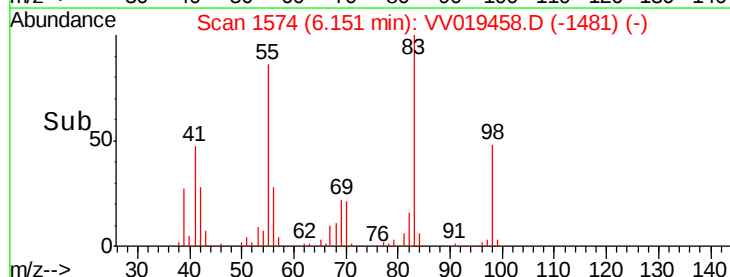
98 47.7 38.3 57.5

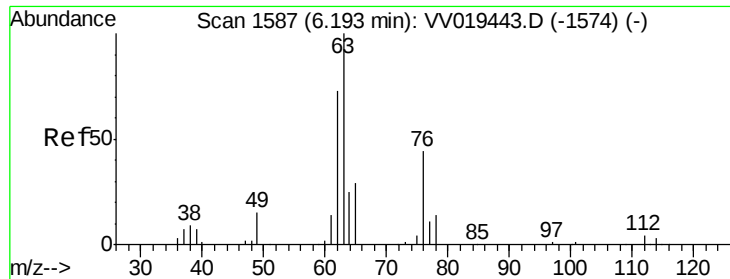


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#37

1,2-Dichloropropane

Concen: 54.404 ug/L

RT: 6.19 min Scan# 1587

Delta R.T. 0.00 min

Lab File: VV019458.D

Acq: 03 Dec 2020 15:03

Instrument :

MSVOA_V

ClientSampleId :

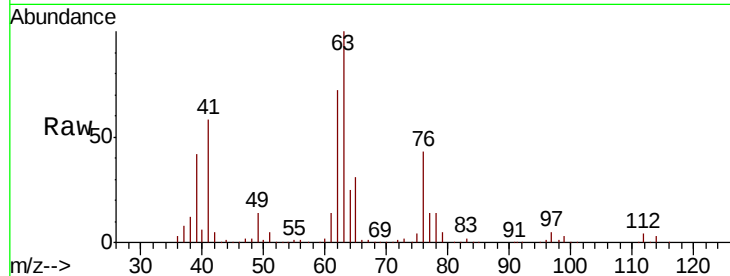
BFB99

Tot Ion: 63 Resp: 168582

Ion Ratio Lower Upper

63 100

112 4.3 3.8 5.6



Abundance Ion 63.00 (62.70 to 63.70): VV019443.D (-1574) (-)

Ion 112.00 (111.70 to 112.70): VV019443.D (-1574) (-)

6.19

80000

60000

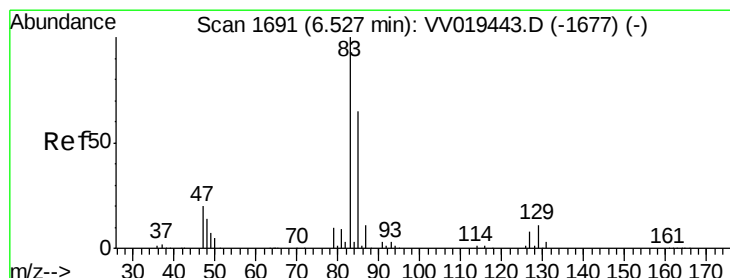
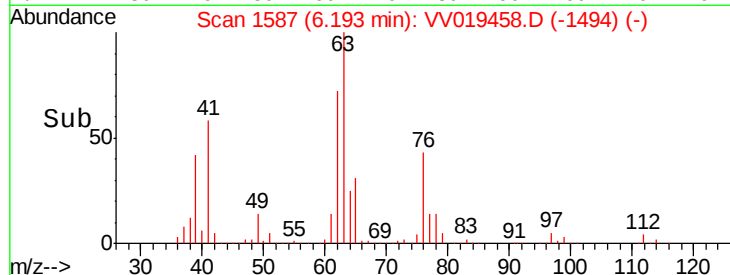
40000

20000

0

6.10 6.20 6.30

Time-->



#38

Bromodichloromethane

Concen: 51.499 ug/L

RT: 6.53 min Scan# 1691

Delta R.T. 0.00 min

Lab File: VV019458.D

Acq: 03 Dec 2020 15:03

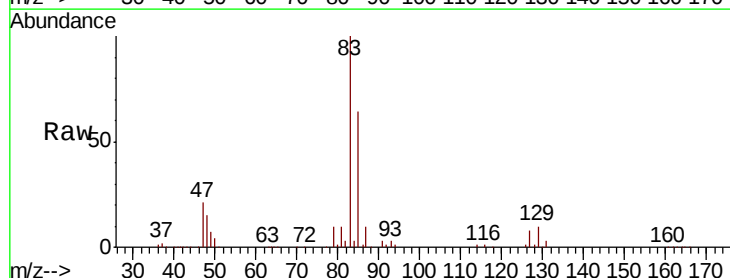
Tgt Ion: 83 Resp: 211575

Ion Ratio Lower Upper

83 100

85 63.9 45.3 84.1

127 7.9 6.6 9.8



Abundance Ion 83.00 (82.70 to 83.70): VV019443.D (-1677) (-)

Ion 85.00 (84.70 to 85.70): VV019443.D (-1677) (-)

Ion 127.00 (126.70 to 127.70): VV019443.D (-1677) (-)

6.53

150000

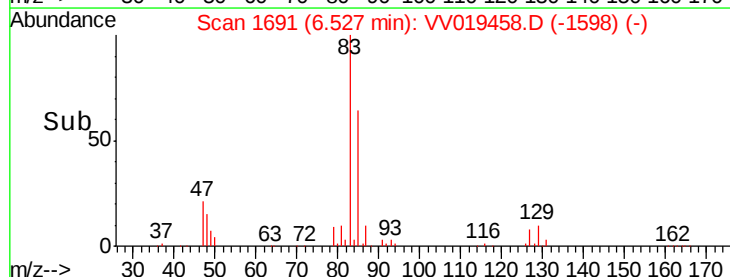
100000

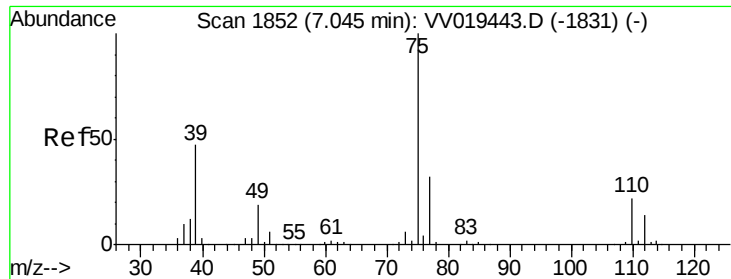
50000

0

6.45 6.50 6.55 6.60 6.65

Time-->

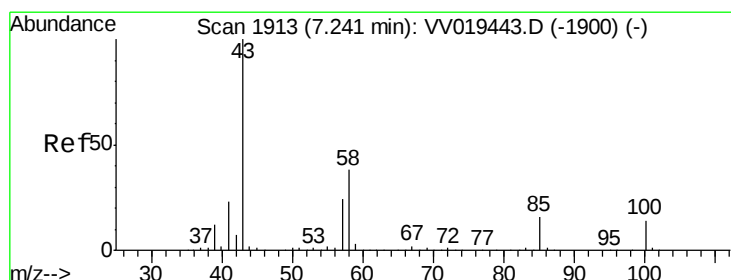
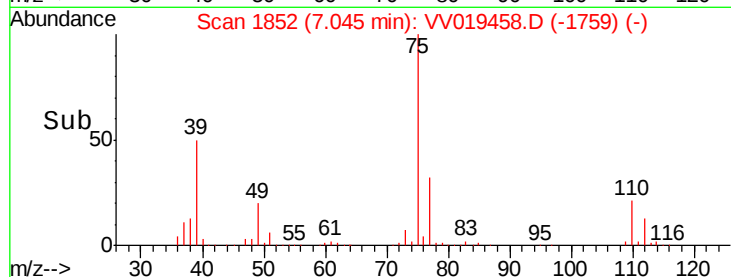
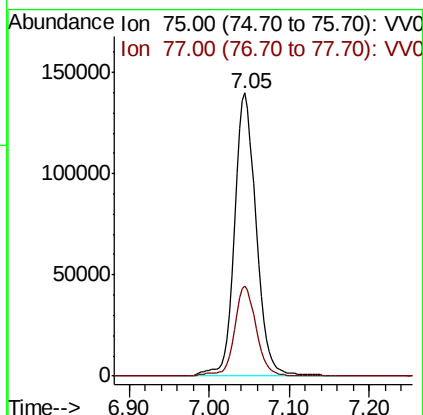
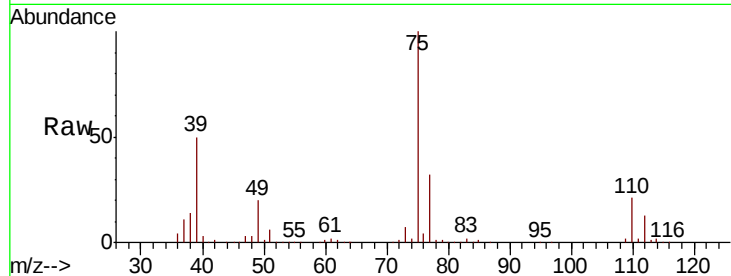




#39
 cis-1,3-Dichloropropene
 Concen: 55.884 ug/L
 RT: 7.05 min Scan# 1852
 Delta R.T. 0.00 min
 Lab File: VV019458.D
 Acq: 03 Dec 2020 15:03

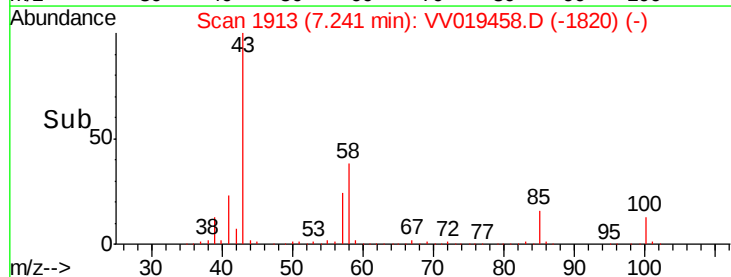
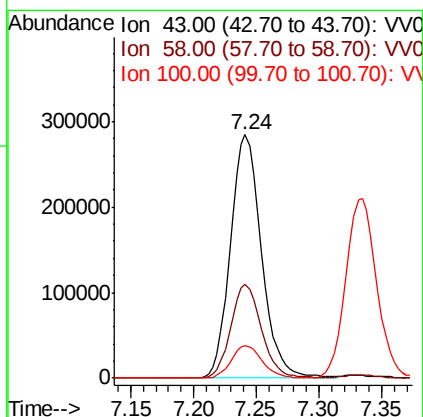
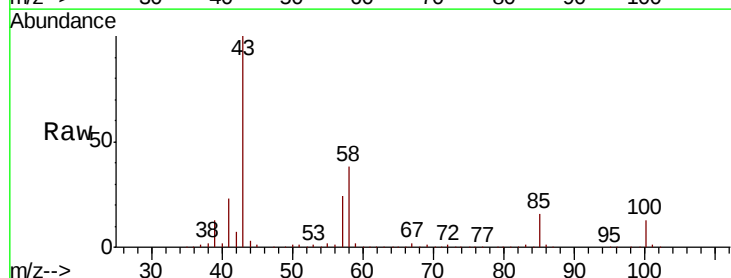
Instrument :
 MSVOA_V
 ClientSampleId :
 BFB99

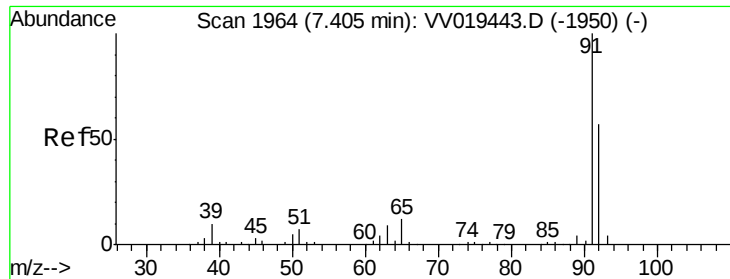
Tot Ion: 75 Resp: 255793
 Ion Ratio Lower Upper
 75 100
 77 31.9 22.5 41.7



#40
 4-Methyl-2-pentanone
 Concen: 111.713 ug/L
 RT: 7.24 min Scan# 1913
 Delta R.T. 0.00 min
 Lab File: VV019458.D
 Acq: 03 Dec 2020 15:03

Tgt Ion: 43 Resp: 488127
 Ion Ratio Lower Upper
 43 100
 58 38.2 31.0 46.4
 100 13.3 11.7 17.5





#42

Toluene

Concen: 53.211 ug/L

RT: 7.41 min Scan# 1964

Delta R.T. 0.00 min

Lab File: VV019458.D

Acq: 03 Dec 2020 15:03

Instrument :

MSVOA_V

ClientSampleId :

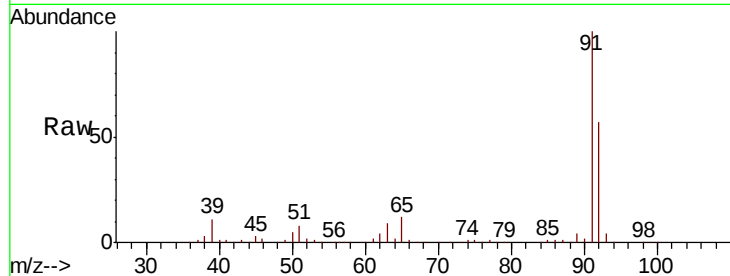
BFB99

Tot Ion: 91 Resp: 620123

Ion Ratio Lower Upper

91 100

92 57.3 40.0 74.4



Abundance Ion 91.00 (90.70 to 91.70): VV019443.D (-1950) (-)

Ion 92.00 (91.70 to 92.70): VV019443.D (-1950) (-)

7.41

400000

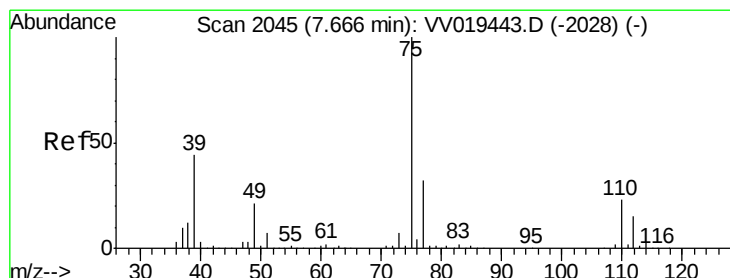
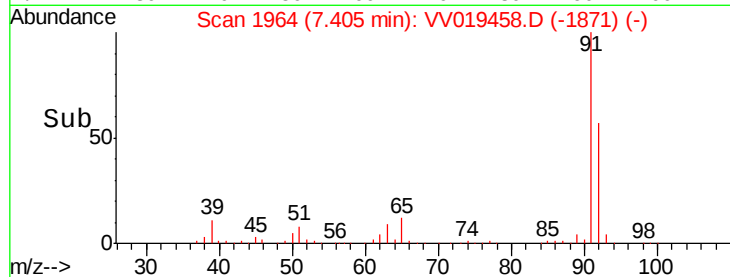
300000

200000

100000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 55.126 ug/L

RT: 7.67 min Scan# 2045

Delta R.T. 0.00 min

Lab File: VV019458.D

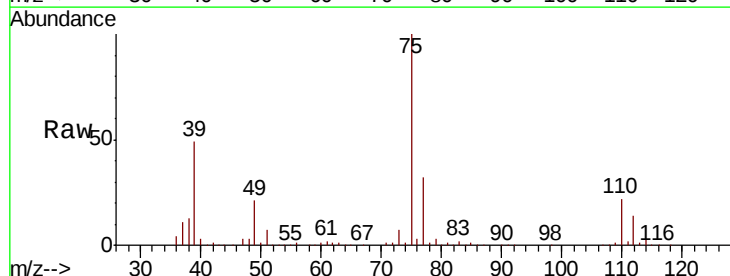
Acq: 03 Dec 2020 15:03

Tgt Ion: 75 Resp: 251334

Ion Ratio Lower Upper

75 100

77 31.8 22.8 42.4



Abundance Ion 75.00 (74.70 to 75.70): VV019443.D (-2028) (-)

Ion 77.00 (76.70 to 77.70): VV019443.D (-2028) (-)

7.67

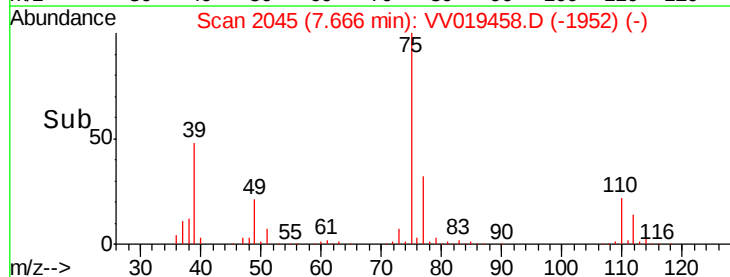
150000

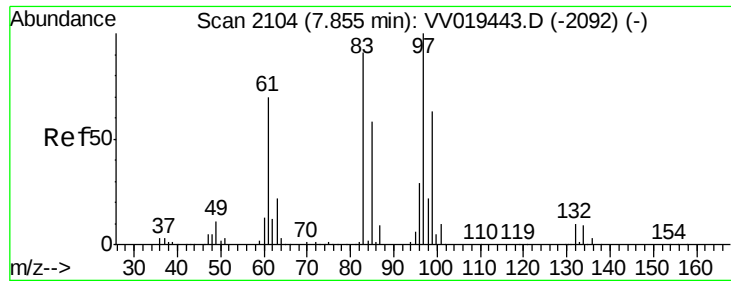
100000

50000

0

Time-->

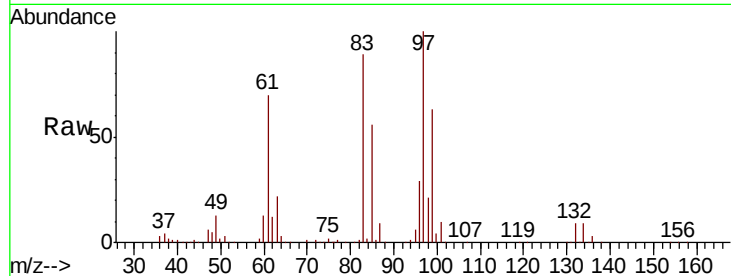




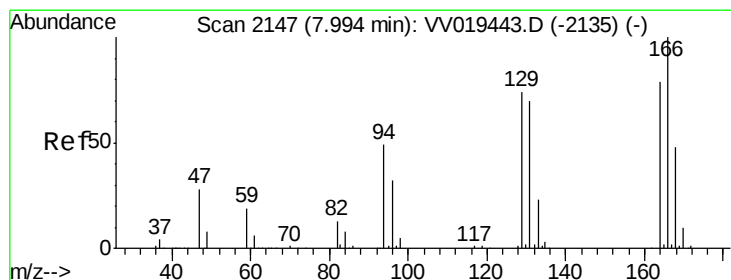
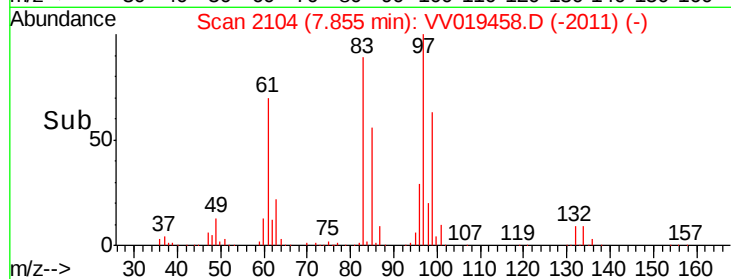
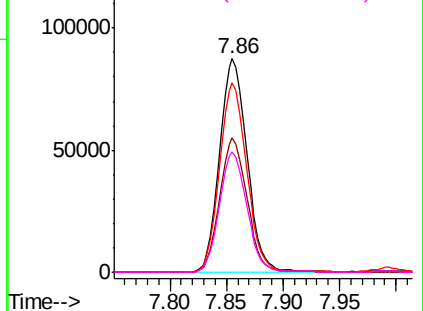
#45
 1,1,2-Trichloroethane
 Concen: 51.215 ug/L
 RT: 7.86 min Scan# 2104
 Delta R.T. 0.00 min
 Lab File: VV019458.D
 Acq: 03 Dec 2020 15:03

Instrument :
 MSVOA_V
 ClientSampled :
 BFB99

Tot Ion:	97	Resp:	148610
Ion	Ratio	Lower	Upper
97	100		
99	63.0	43.7	81.1
83	88.9	62.0	115.2
85	56.5	40.0	74.4

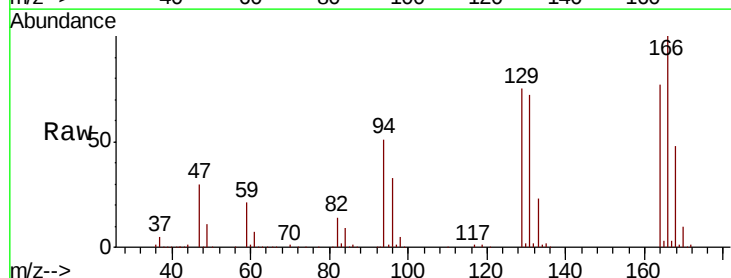


Abundance Ion 97.00 (96.70 to 97.70): VV0
 Ion 99.00 (98.70 to 99.70): VV0
 Ion 83.00 (82.70 to 83.70): VV0
 Ion 85.00 (84.70 to 85.70): VV0

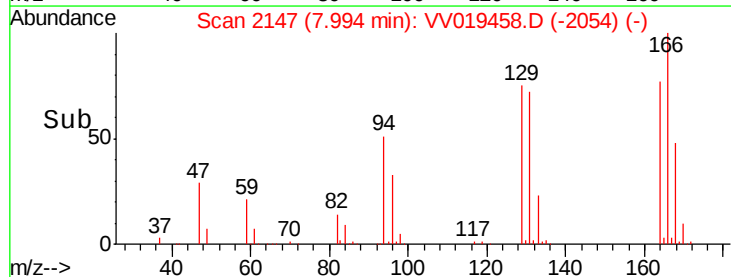
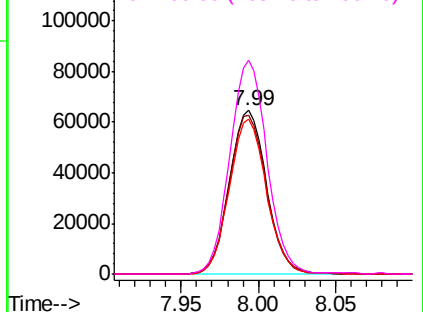


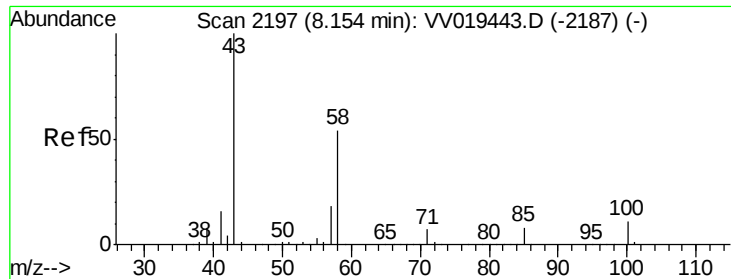
#46
 Tetrachloroethene
 Concen: 49.500 ug/L
 RT: 7.99 min Scan# 2147
 Delta R.T. 0.00 min
 Lab File: VV019458.D
 Acq: 03 Dec 2020 15:03

Tgt Ion:	164	Resp:	107706
Ion	Ratio	Lower	Upper
164	100		
129	97.5	62.9	116.7
131	94.5	61.1	113.5
166	130.7	86.5	160.6



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

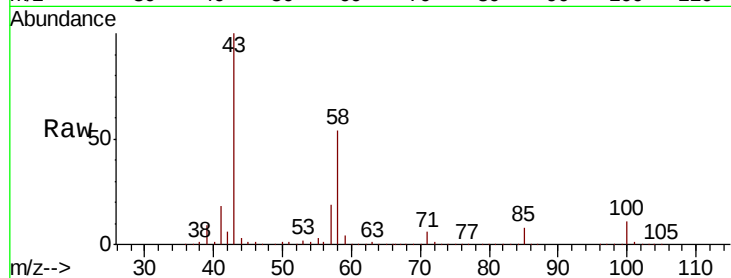




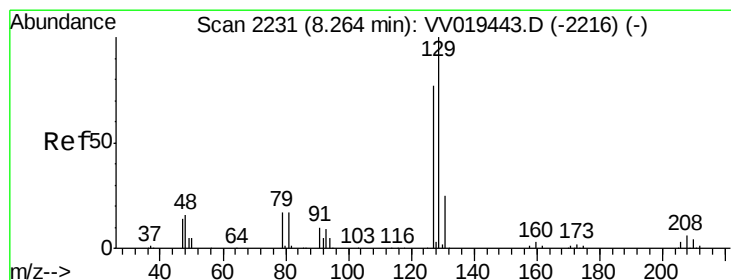
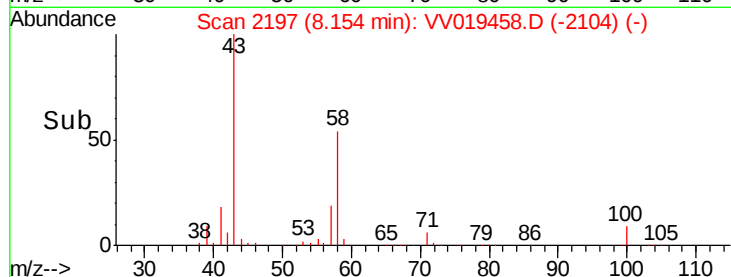
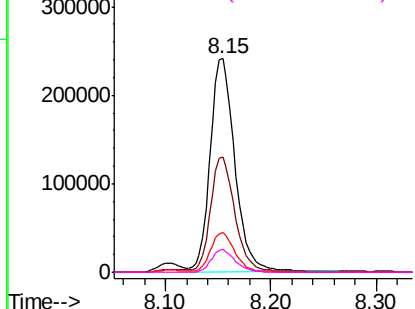
#48
2-Hexanone
Concen: 113.634 ug/L
RT: 8.15 min Scan# 2197
Delta R.T. 0.00 min
Lab File: VV019458.D
Acq: 03 Dec 2020 15:03

Instrument :
MSVOA_V
ClientSampleId :
BFB99

Tot Ion: 43 Resp: 393255
Ion Ratio Lower Upper
43 100
58 53.3 43.8 65.6
57 18.0 15.4 23.2
100 10.4 9.0 13.6

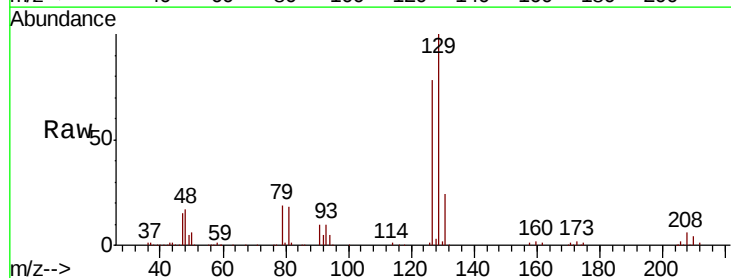


Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 58.00 (57.70 to 58.70): VV0
Ion 57.00 (56.70 to 57.70): VV0
Ion 100.00 (99.70 to 100.70): VV0

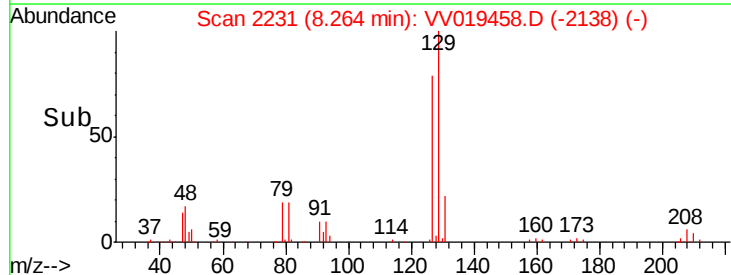
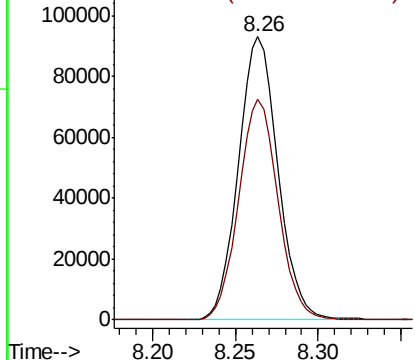


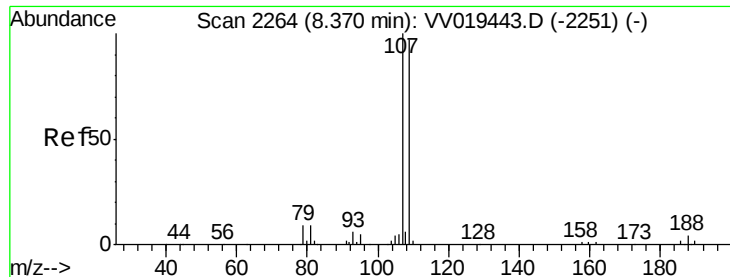
#49
Dibromochloromethane
Concen: 48.186 ug/L
RT: 8.26 min Scan# 2231
Delta R.T. 0.00 min
Lab File: VV019458.D
Acq: 03 Dec 2020 15:03

Tgt Ion: 129 Resp: 154528
Ion Ratio Lower Upper
129 100
127 77.8 53.5 99.5



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V

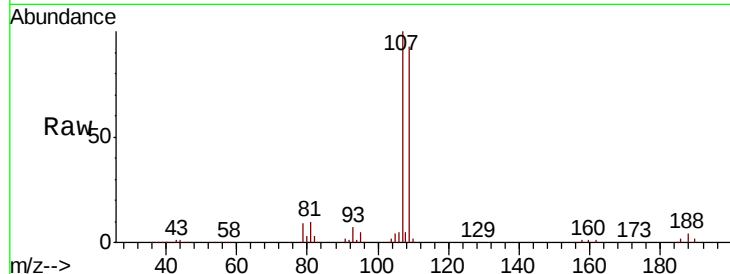




#50
 1,2-Dibromoethane
 Concen: 49.247 ug/L
 RT: 8.37 min Scan# 2264
 Delta R.T. 0.00 min
 Lab File: VV019458.D
 Acq: 03 Dec 2020 15:03

Instrument :
 MSVOA_V
 ClientSampleId :
 BFB99

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.4	66.1	122.8
188	3.6	3.0	4.4

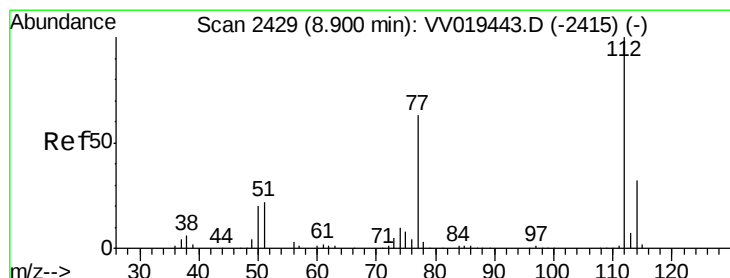
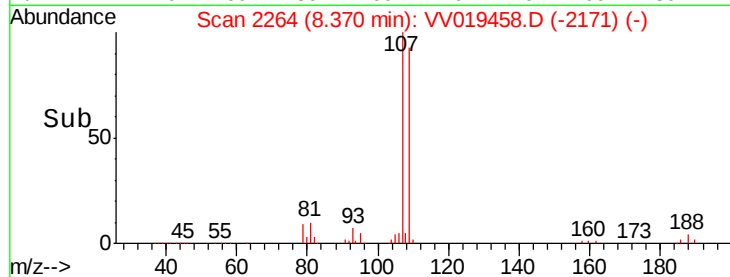
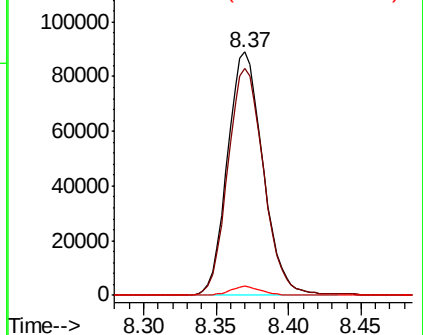


Abundance

Ion 107.00 (106.70 to 107.70): V

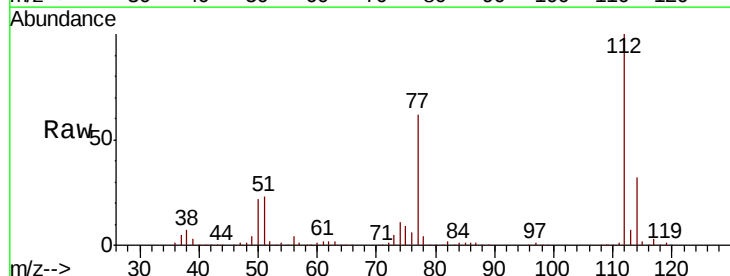
Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51
 Chlorobenzene
 Concen: 50.472 ug/L
 RT: 8.90 min Scan# 2429
 Delta R.T. 0.00 min
 Lab File: VV019458.D
 Acq: 03 Dec 2020 15:03

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.5	22.7	42.1
77	62.5	50.3	75.5

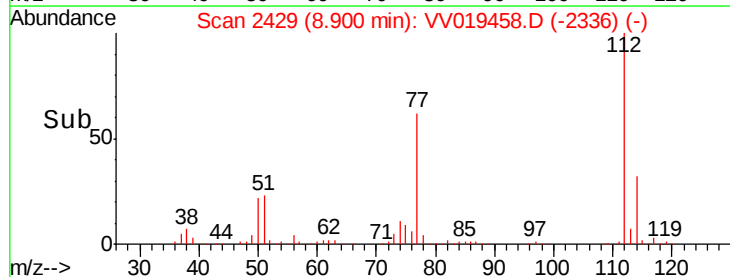
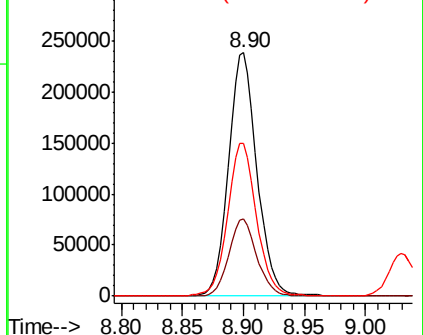


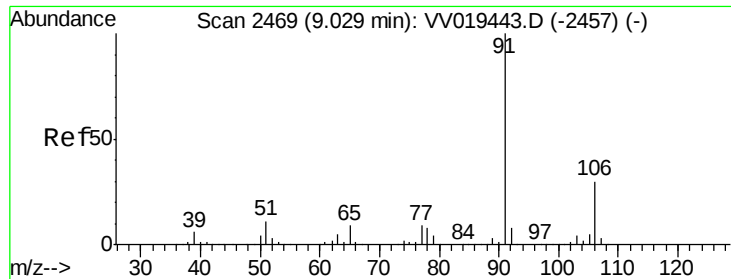
Abundance

Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VV0





#52

Ethylbenzene

Concen: 54.898 ug/L

RT: 9.03 min Scan# 2469

Delta R.T. 0.00 min

Lab File: VV019458.D

Acq: 03 Dec 2020 15:03

Instrument :

MSVOA_V

ClientSampleId :

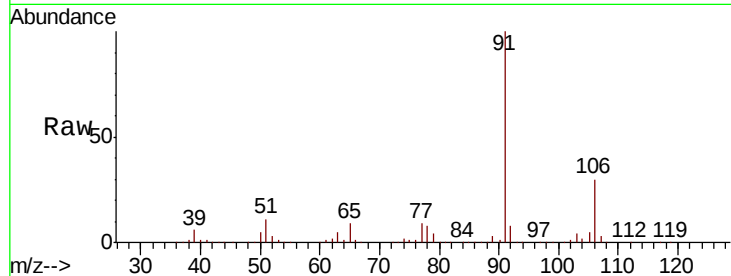
BFB99

Tot Ion: 91 Resp: 686599

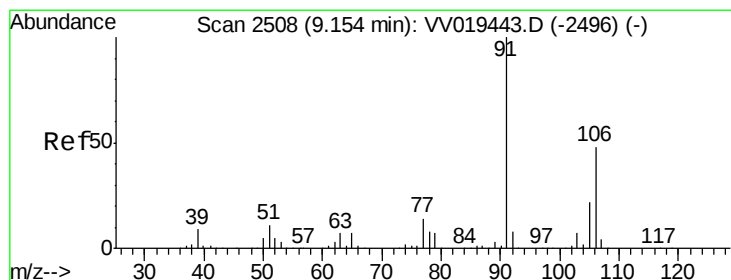
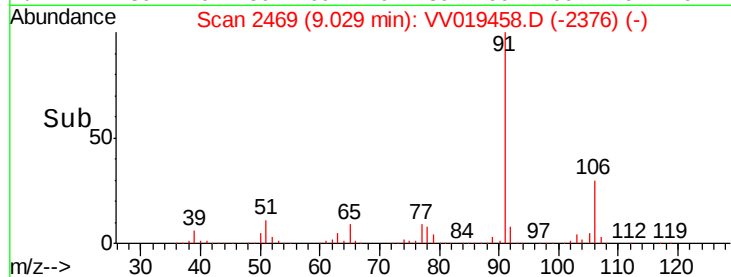
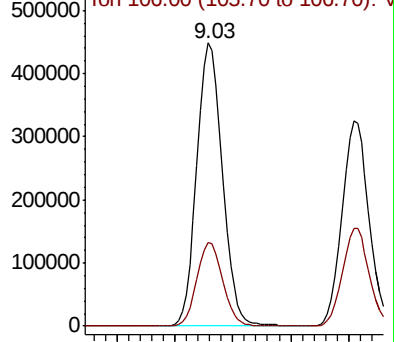
Ion Ratio Lower Upper

91 100

106 29.6 21.4 39.8



Abundance Ion 91.00 (90.70 to 91.70): VV019443.D (-2457) (-)



#53

m,p-Xylene

Concen: 53.929 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VV019458.D

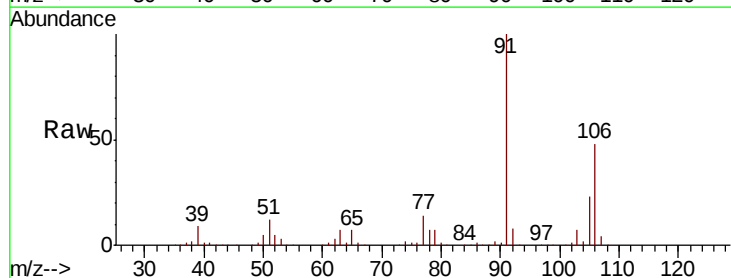
Acq: 03 Dec 2020 15:03

Tgt Ion: 106 Resp: 249554

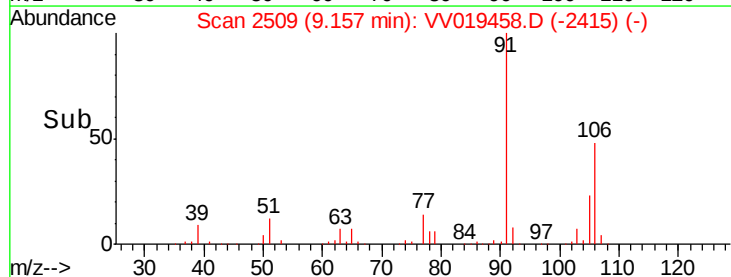
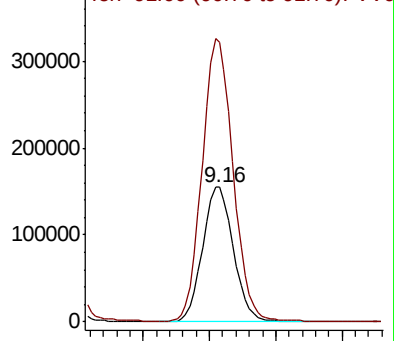
Ion Ratio Lower Upper

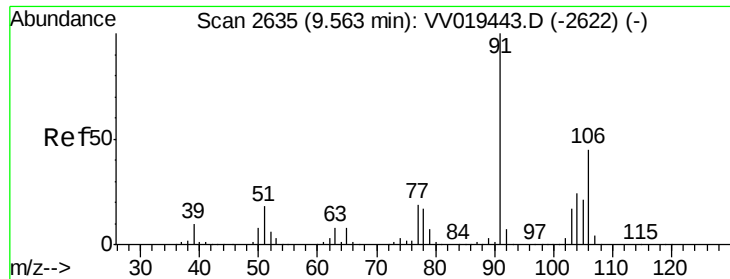
106 100

91 207.8 148.7 276.3



Abundance Ion 106.00 (105.70 to 106.70): VV019443.D (-2496) (-)





#54

o-xylene

Concen: 52.581 ug/L

RT: 9.56 min Scan# 2635

Delta R.T. 0.00 min

Lab File: VV019458.D

Acq: 03 Dec 2020 15:03

Instrument :

MSVOA_V

ClientSampleId :

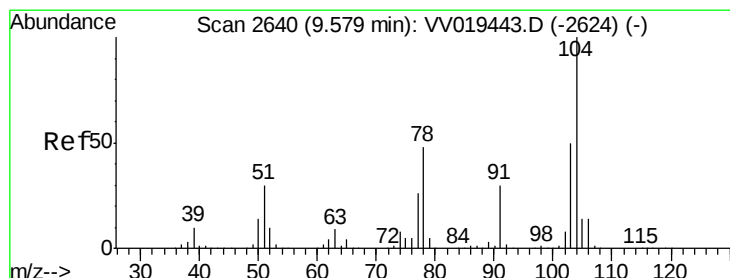
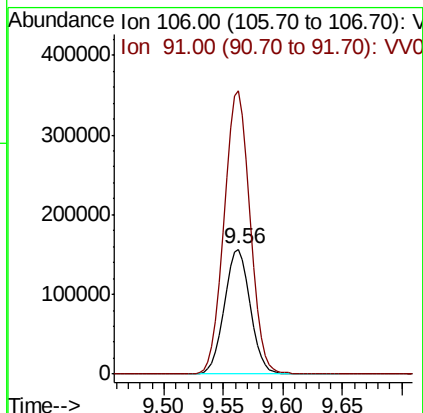
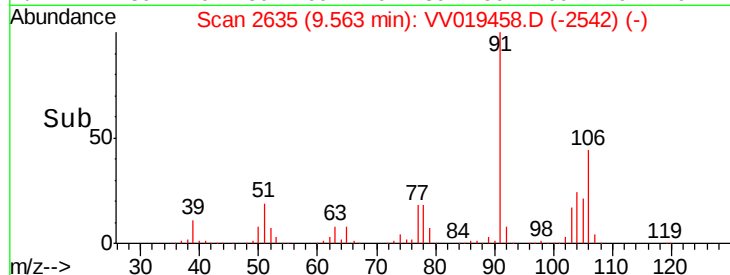
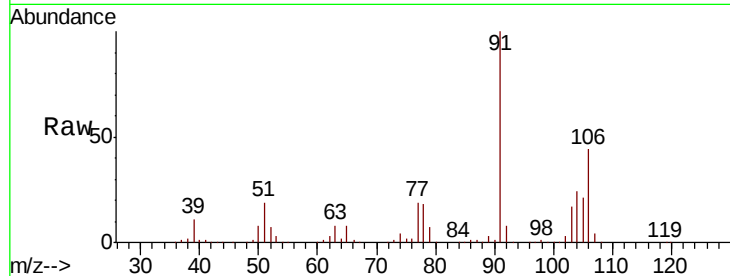
BFB99

Tot Ion:106 Resp: 236916

Ion Ratio Lower Upper

106 100

91 226.2 155.1 288.1



#55

Styrene

Concen: 53.976 ug/L

RT: 9.58 min Scan# 2640

Delta R.T. 0.00 min

Lab File: VV019458.D

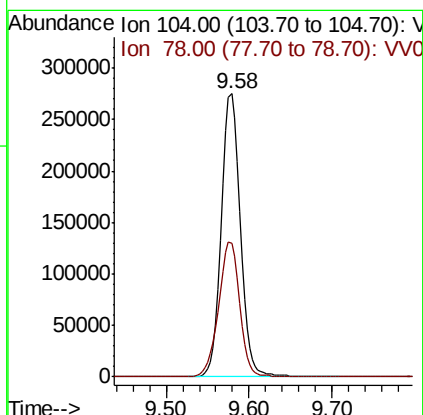
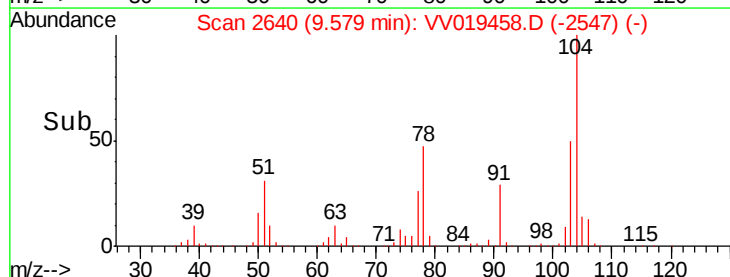
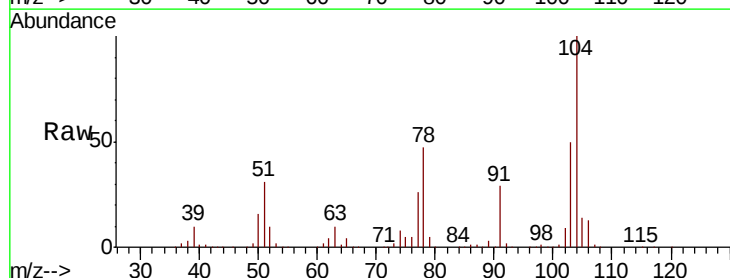
Acq: 03 Dec 2020 15:03

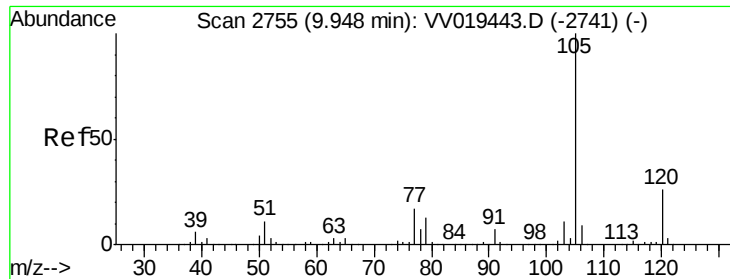
Tgt Ion:104 Resp: 435358

Ion Ratio Lower Upper

104 100

78 47.2 33.0 61.4





#56

Isopropylbenzene

Concen: 55.022 ug/L

RT: 9.95 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VV019458.D

Acq: 03 Dec 2020 15:03

Instrument :

MSVOA_V

ClientSampled :

BFB99

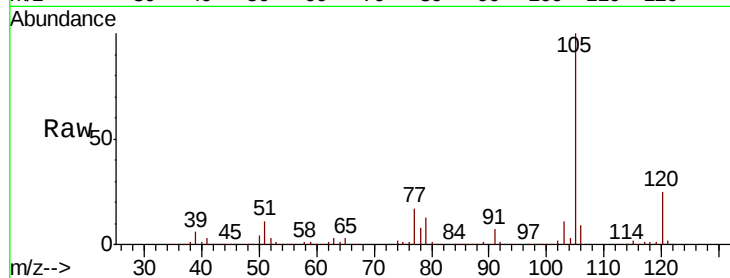
Tot Ion:105 Resp: 649518

Ion Ratio Lower Upper

105 100

120 25.4 20.8 31.2

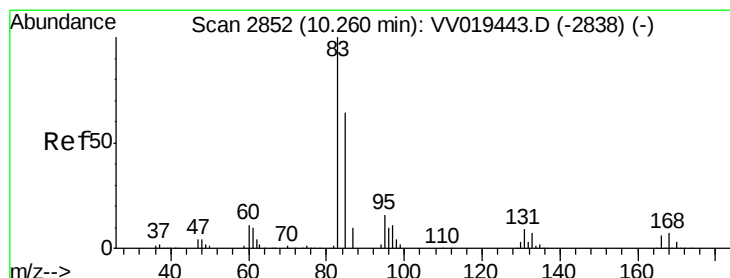
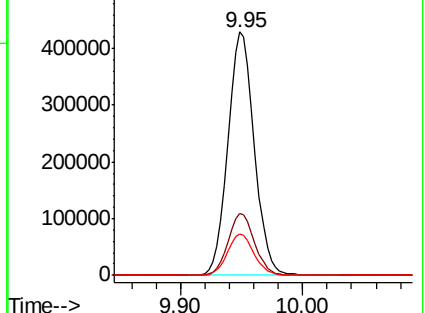
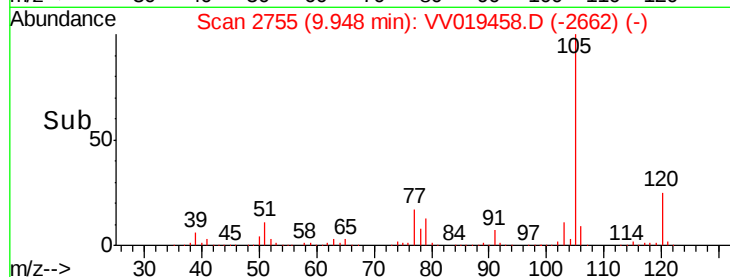
77 17.2 13.1 19.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 50.693 ug/L

RT: 10.26 min Scan# 2852

Delta R.T. 0.00 min

Lab File: VV019458.D

Acq: 03 Dec 2020 15:03

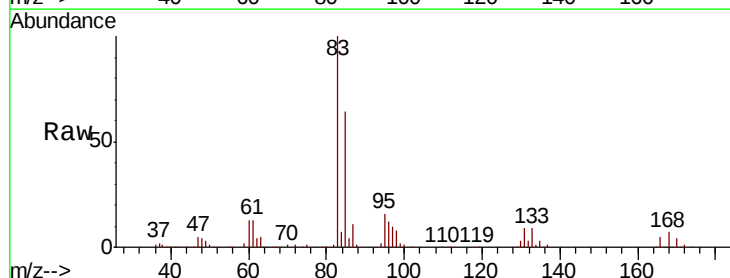
Tgt Ion: 83 Resp: 224836

Ion Ratio Lower Upper

83 100

85 64.1 44.8 83.2

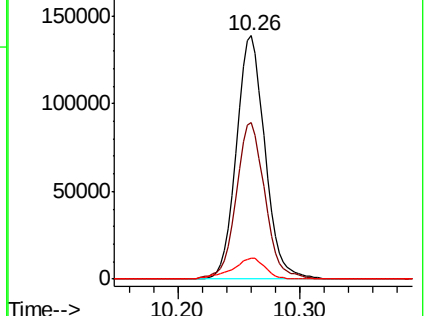
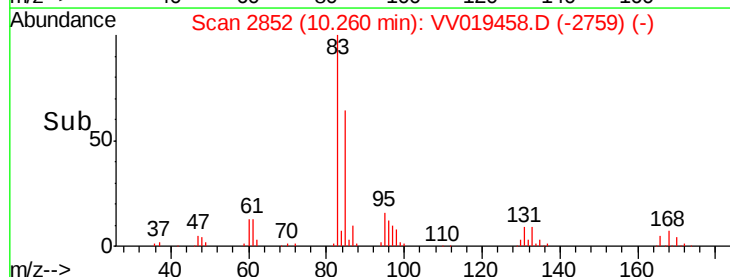
131 8.8 7.2 10.8

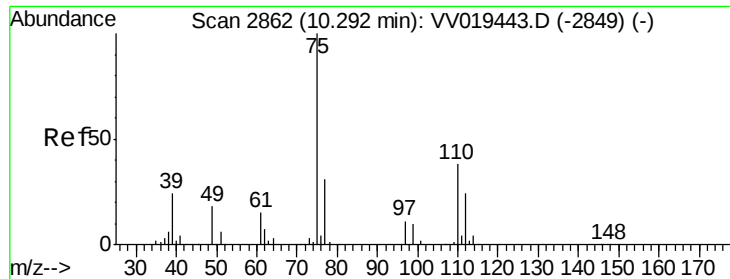


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 49.037 ug/L

RT: 10.29 min Scan# 2862

Delta R.T. 0.00 min

Lab File: VV019458.D

Acq: 03 Dec 2020 15:03

Instrument :

MSVOA_V

ClientSampleId :

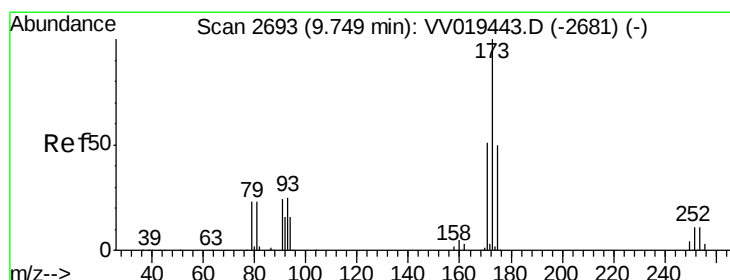
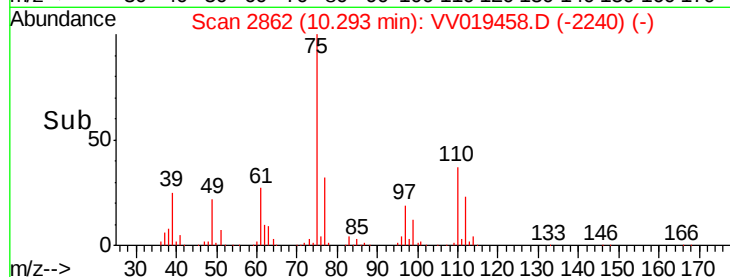
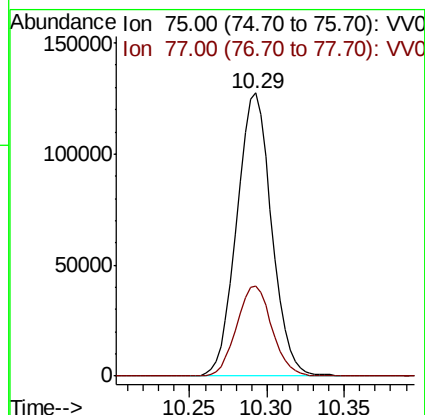
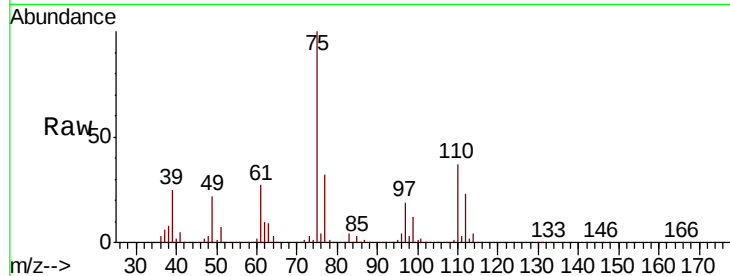
BFB99

Tot Ion: 75 Resp: 199603

Ion Ratio Lower Upper

75 100

77 32.5 25.2 37.8



#61

Bromoform

Concen: 46.649 ug/L

RT: 9.75 min Scan# 2693

Delta R.T. 0.00 min

Lab File: VV019458.D

Acq: 03 Dec 2020 15:03

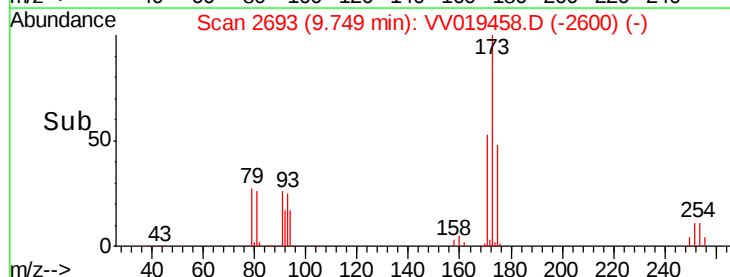
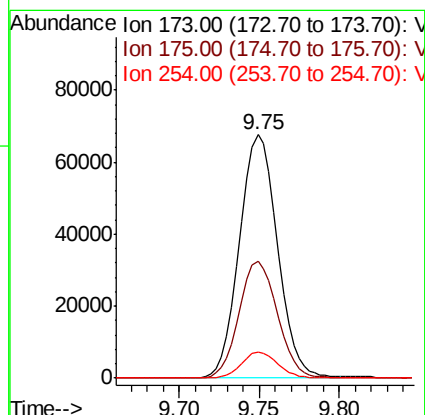
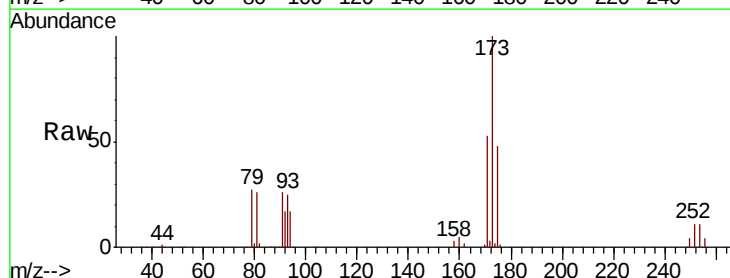
Tgt Ion: 173 Resp: 109669

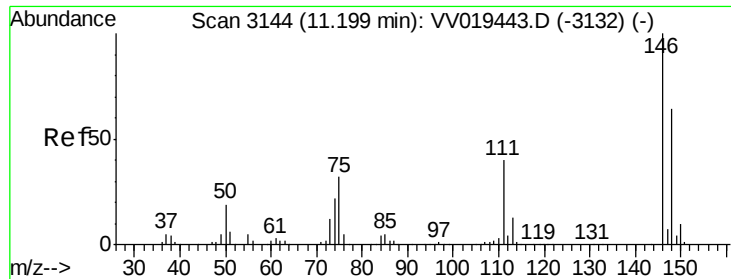
Ion Ratio Lower Upper

173 100

175 48.5 38.8 58.2

254 10.1 8.6 13.0





#62

1,3-Dichlorobenzene

Concen: 50.825 ug/L

RT: 11.20 min Scan# 3144

Delta R.T. 0.00 min

Lab File: VV019458.D

Acq: 03 Dec 2020 15:03

Instrument :

MSVOA_V

ClientSampleId :

BFB99

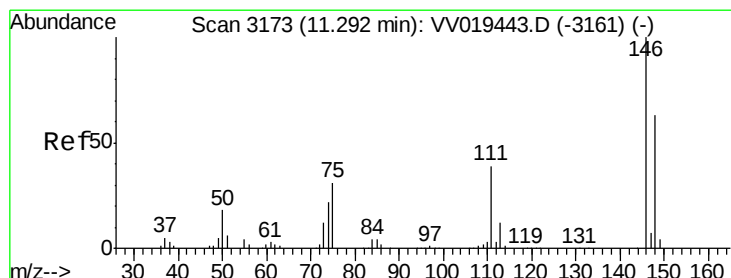
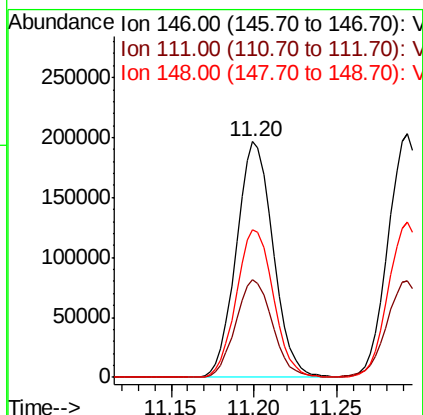
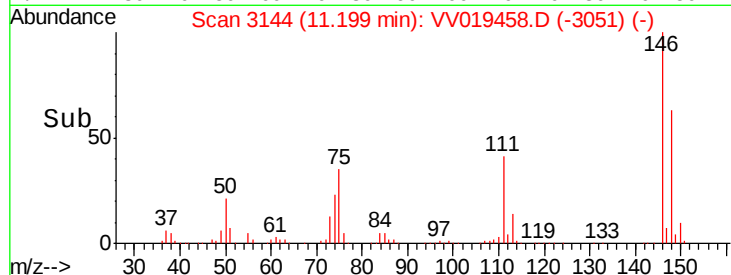
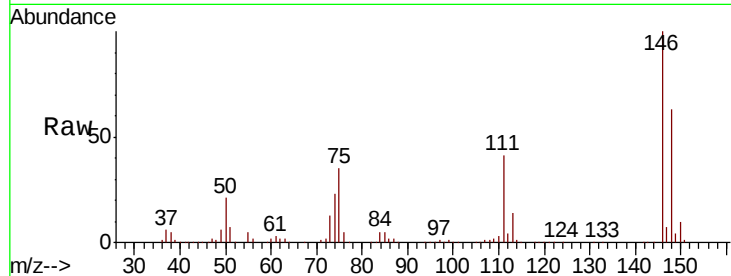
Tot Ion:146 Resp: 304055

Ion Ratio Lower Upper

146 100

111 41.3 27.9 51.7

148 62.7 44.4 82.5



#63

1,4-Dichlorobenzene

Concen: 49.711 ug/L

RT: 11.29 min Scan# 3173

Delta R.T. 0.00 min

Lab File: VV019458.D

Acq: 03 Dec 2020 15:03

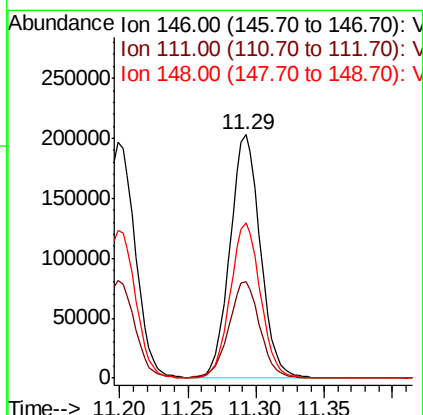
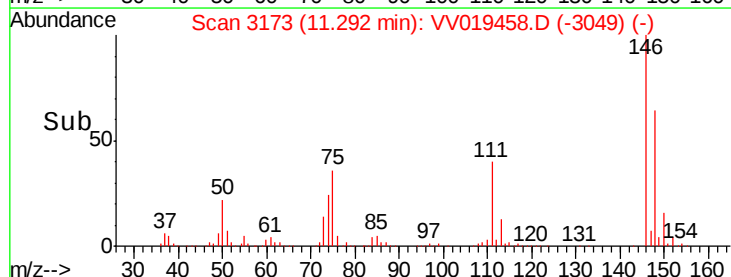
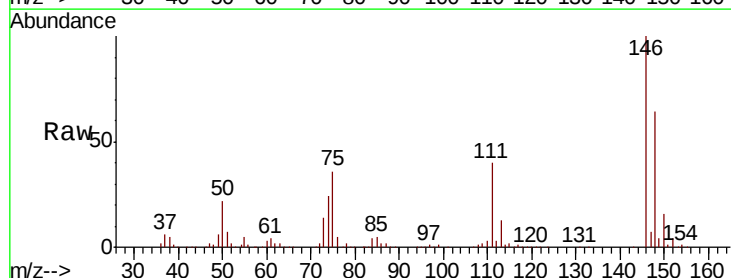
Tgt Ion:146 Resp: 312575

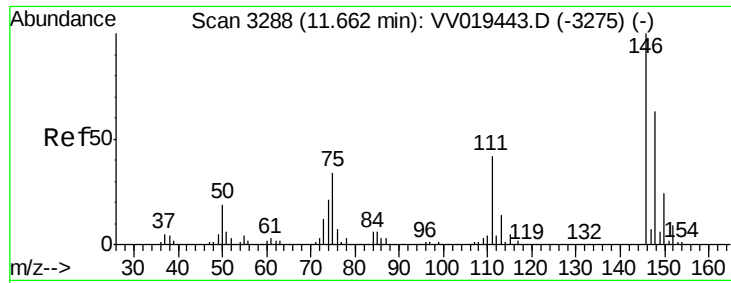
Ion Ratio Lower Upper

146 100

111 39.9 26.7 49.7

148 63.6 45.2 84.0





#65

1,2-Dichlorobenzene

Concen: 49.130 ug/L

RT: 11.66 min Scan# 3288

Delta R.T. 0.00 min

Lab File: VV019458.D

Acq: 03 Dec 2020 15:03

Instrument :

MSVOA_V

ClientSampled :

BFB99

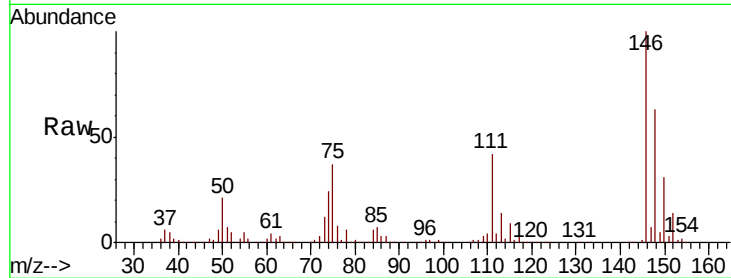
Tot Ion:146 Resp: 301753

Ion Ratio Lower Upper

146 100

111 42.5 33.8 50.8

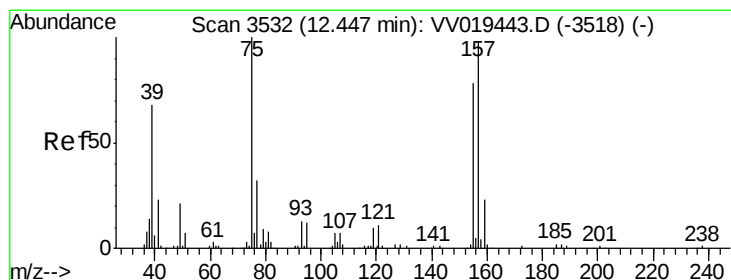
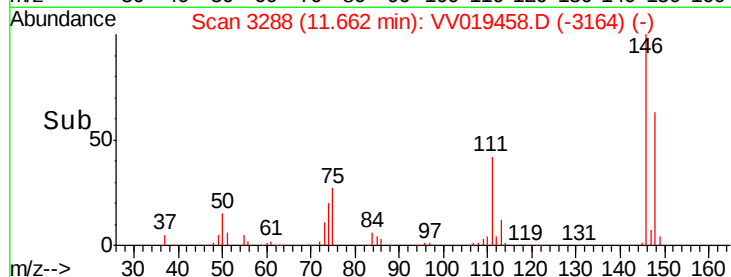
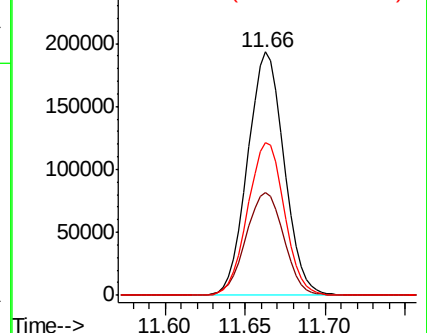
148 63.0 49.8 74.8



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: 49.535 ug/L

RT: 12.45 min Scan# 3533

Delta R.T. 0.00 min

Lab File: VV019458.D

Acq: 03 Dec 2020 15:03

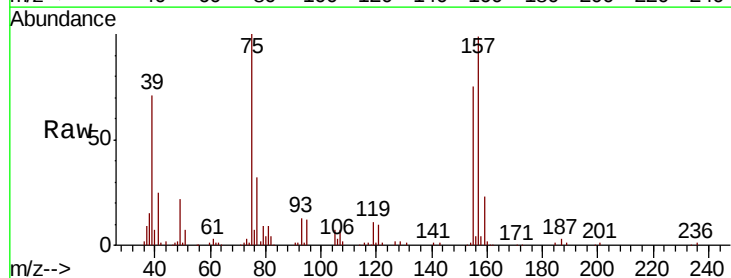
Tgt Ion: 75 Resp: 52646

Ion Ratio Lower Upper

75 100

155 74.5 64.5 96.7

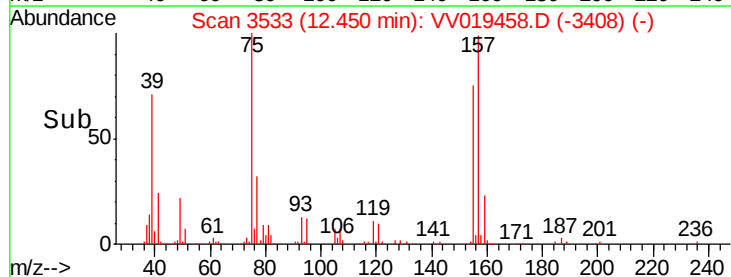
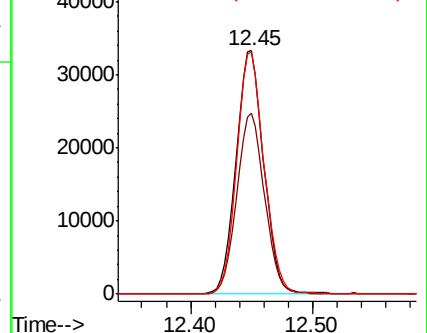
157 99.3 84.2 126.2

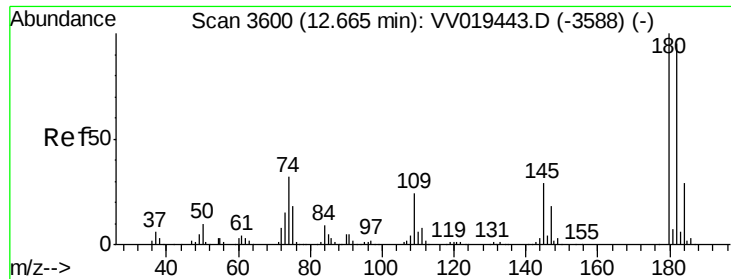


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

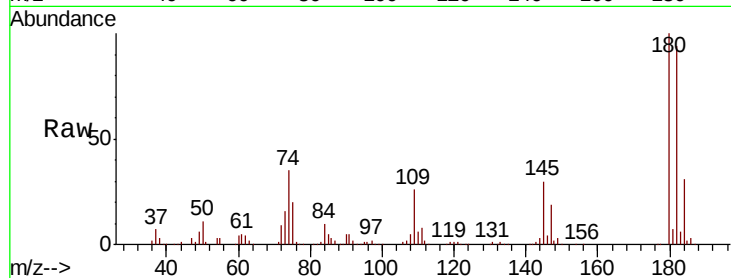




#67
 1,3,5-Trichlorobenzene
 Concen: 52.612 ug/L
 RT: 12.67 min Scan# 3600
 Delta R.T. 0.00 min
 Lab File: VV019458.D
 Acq: 03 Dec 2020 15:03

Instrument :
 MSVOA_V
 ClientSampleId :
 BFB99

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.8	77.0	115.4
184	30.3	24.2	36.2
145	29.7	23.2	34.8



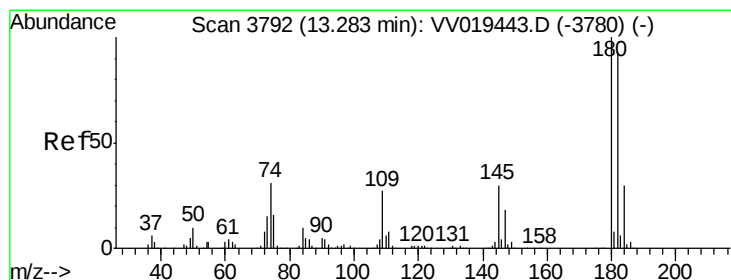
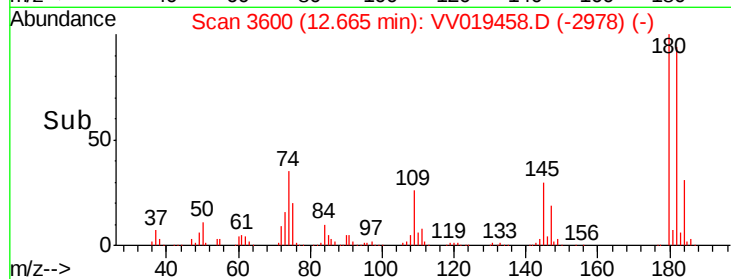
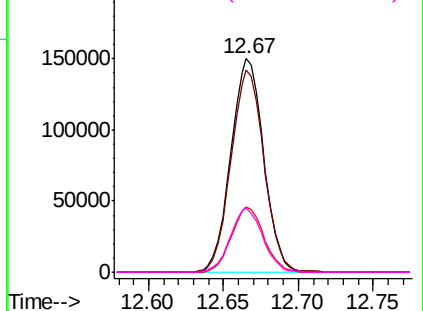
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

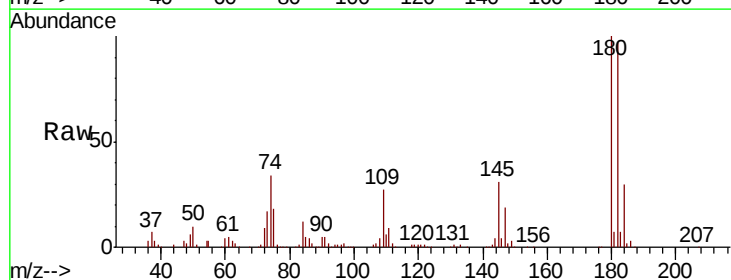
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 53.111 ug/L
 RT: 13.28 min Scan# 3792
 Delta R.T. 0.00 min
 Lab File: VV019458.D
 Acq: 03 Dec 2020 15:03

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.3	114.5
145	30.6	23.4	35.2

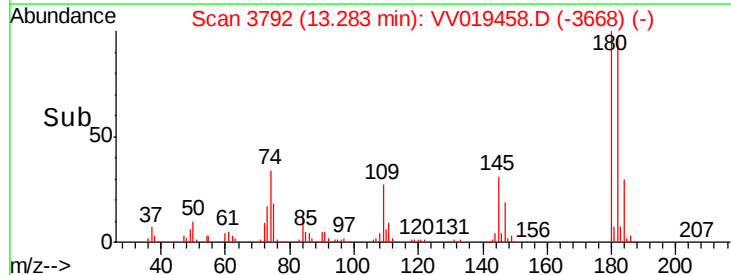
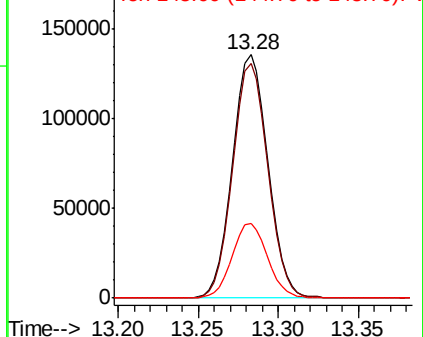


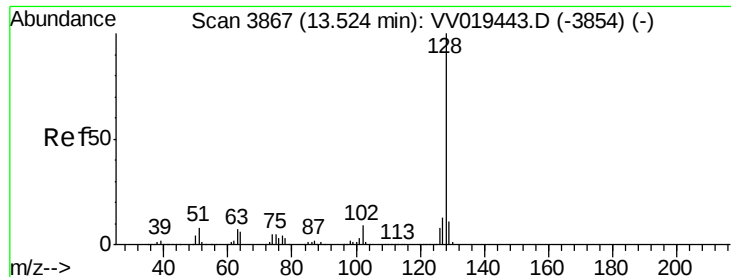
Abundance

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





#69

Naphthalene

Concen: 53.801 ug/L

RT: 13.52 min Scan# 3867

Delta R.T. 0.00 min

Lab File: VV019458.D

Acq: 03 Dec 2020 15:03

Instrument :

MSVOA_V

ClientSampleId :

BFB99

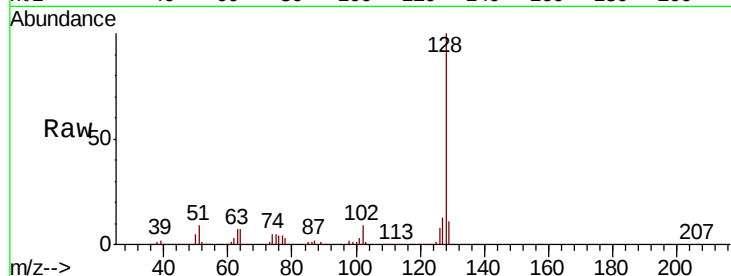
Tot Ion:128 Resp: 527463

Ion Ratio Lower Upper

128 100

127 13.2 10.7 16.1

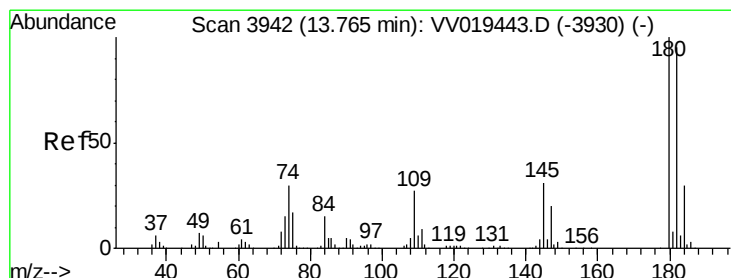
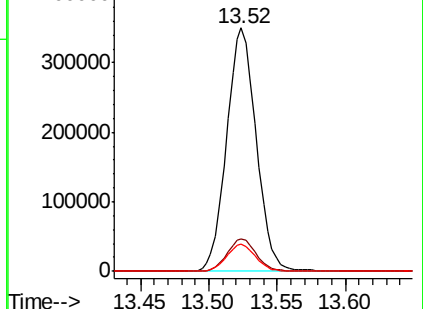
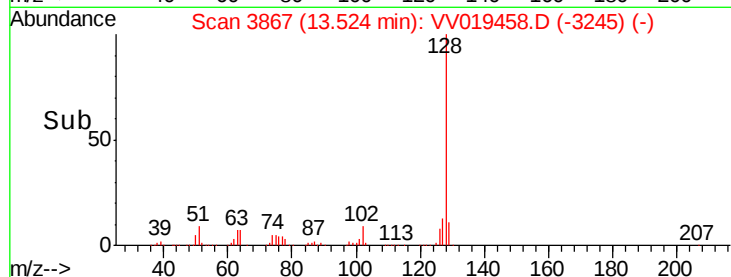
129 10.8 8.6 13.0



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: 52.170 ug/L

RT: 13.77 min Scan# 3942

Delta R.T. 0.00 min

Lab File: VV019458.D

Acq: 03 Dec 2020 15:03

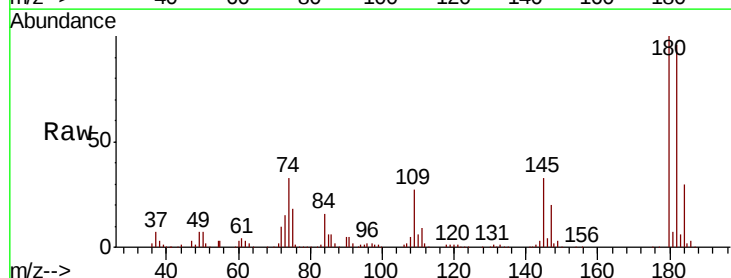
Tgt Ion:180 Resp: 210244

Ion Ratio Lower Upper

180 100

182 96.2 76.6 115.0

145 32.9 25.0 37.6



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

