

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV110320\
 Data File : VV019206.D
 Acq On : 02 Nov 2020 17:47
 Operator : SY/MD
 Sample : VSTD00566
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD005302

Quant Time: Nov 03 04:31:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM110320WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Nov 03 04:30:18 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	225348	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	221968	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.27	152	115275	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	8960	9.34	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	18.68%#
7) Chloroethane-d5	1.58	69	7093	9.62	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	19.24%#
11) 1,1-Dichloroethene-d2	2.13	63	16867	9.52	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	19.04%#
21) 2-Butanone-d5	3.94	46	7220	9.15	ug/L	0.03
Spiked Amount	100.000	Range	40 - 130	Recovery	=	9.15%#
24) Chloroform-d	4.38	84	16657	6.30	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	12.60%#
26) 1,2-Dichloroethane-d4	5.06	65	11903	6.95	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	13.90%#
32) Benzene-d6	5.08	84	31271	5.87	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	11.74%#
36) 1,2-Dichloropropane-d6	6.10	67	9474	5.88	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	11.76%#
41) Toluene-d8	7.34	98	27808	5.49	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	10.98%#
43) trans-1,3-Dichloropropene-	7.65	79	4781	5.28	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	10.56%#
47) 2-Hexanone-d5	8.12	63	4920	7.76	ug/L	0.01
Spiked Amount	100.000	Range	45 - 130	Recovery	=	7.76%#
56) 1,1,2,2-Tetrachloroethane-	10.24	84	11930	5.39	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	10.78%#
66) 1,2-Dichlorobenzene-d4	11.65	152	12196	5.96	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	11.92%#

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	6852	4.405	ug/L 100
3) Chloromethane	1.25	50	6879	5.155	ug/L 99
5) Vinyl chloride	1.32	62	7068	6.345	ug/L 98
6) Bromomethane	1.53	94	4930	7.615	ug/L 95
8) Chloroethane	1.60	64	4672	7.695	ug/L 95
9) Trichlorofluoromethane	1.77	101	11716	5.920	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	6040	6.989	ug/L 98
12) 1,1-Dichloroethene	2.14	96	5529	6.736	ug/L 82
13) Acetone	2.19	43	7827	11.881	ug/L 92
14) Carbon disulfide	2.31	76	16476	4.930	ug/L 99
15) Methyl Acetate	2.45	43	6224	4.994	ug/L 98
16) Methylene chloride	2.52	84	6875	4.676	ug/L 95
17) trans-1,2-Dichloroethene	2.78	96	5886	4.384	ug/L 91
18) Methyl tert-butyl Ether	2.78	73	20880	4.601	ug/L 99
19) 1,1-Dichloroethane	3.22	63	11828	4.847	ug/L 97
20) cis-1,2-Dichloroethene	3.94	96	3042	1.943	ug/L 94
22) 2-Butanone	4.02	43	6044	6.296	ug/L 96

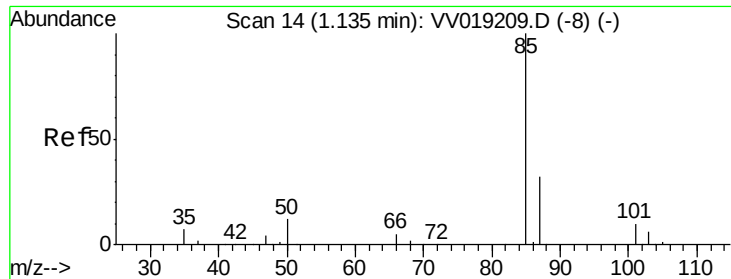
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV110320\
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	3505	4.430	ug/L	93
25) Chloroform	4.41	83	12468	4.536	ug/L	100
27) 1,2-Dichloroethane	5.16	62	10851	5.141	ug/L	98
29) Cyclohexane	4.71	56	8243	3.851	ug/L	97
30) 1,1,1-Trichloroethane	4.64	97	11591	4.594	ug/L #	85
31) Carbon tetrachloride	4.85	117	10070	4.493	ug/L	99
33) Benzene	5.13	78	24758	4.288	ug/L	100
34) Trichloroethene	5.94	95	7138	4.529	ug/L	95
35) Methylcyclohexane	6.16	83	8130	3.422	ug/L	95
37) 1,2-Dichloropropane	6.20	63	7166	5.040	ug/L #	93
38) Bromodichloromethane	6.54	83	9585	4.358	ug/L #	95
39) cis-1,3-Dichloropropene	7.05	75	9501	3.834	ug/L	99
40) 4-Methyl-2-pentanone	7.25	43	16020	8.761	ug/L	97
42) Toluene	7.41	91	25499	4.021	ug/L	97
44) trans-1,3-Dichloropropene	7.68	75	9924	4.201	ug/L	100
45) 1,1,2-Trichloroethane	7.86	97	6643	4.403	ug/L	97
46) Tetrachloroethene	8.00	164	5693	4.490	ug/L	90
48) 2-Hexanone	8.16	43	10902	7.714	ug/L	99
49) Dibromochloromethane	8.27	129	7189	3.945	ug/L	97
50) 1,2-Dibromoethane	8.38	107	6514	3.952	ug/L	94
51) Chlorobenzene	8.90	112	18629	4.369	ug/L	98
52) Ethylbenzene	9.04	91	27828	3.839	ug/L	100
53) m,p-Xylene	9.16	106	10459	3.736	ug/L	95
54) o-Xylene	9.56	106	9611	3.563	ug/L	99
55) Styrene	9.59	104	16389	3.537	ug/L	100
57) 1,1,2,2-Tetrachloroethane	10.26	83	9822	4.133	ug/L	96
59) Bromoform	9.75	173	5743	4.368	ug/L	96
60) Isopropylbenzene	9.95	105	26003	3.624	ug/L	100
61) 1,2,3-Trichloropropane	10.30	75	8398	4.395	ug/L	95
62) 1,3,5-Trimethylbenzene	10.56	105	19921	3.253	ug/L	96
63) 1,2,4-Trimethylbenzene	10.94	105	19706	3.296	ug/L	99
64) 1,3-Dichlorobenzene	11.21	146	14283	4.091	ug/L	98
65) 1,4-Dichlorobenzene	11.29	146	15509	4.318	ug/L	96
67) 1,2-Dichlorobenzene	11.67	146	14997	4.338	ug/L	99
68) 1,2-Dibromo-3-chloropropan	12.45	75	2354	4.086	ug/L	96
69) 1,3,5-Trichlorobenzene	12.67	180	9997	3.973	ug/L	96
70) 1,2,4-trichlorobenzene	13.29	180	8737	3.817	ug/L	96
71) Naphthalene	13.53	128	19275	2.789	ug/L	99
72) 1,2,3-Trichlorobenzene	13.77	180	8538	3.796	ug/L	96

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



#2

Dichlorodifluoromethane

Concen: 4.405 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV019206.D

Acq: 02 Nov 2020 17:47

Instrument :

MSVOA_V

ClientSampleId :

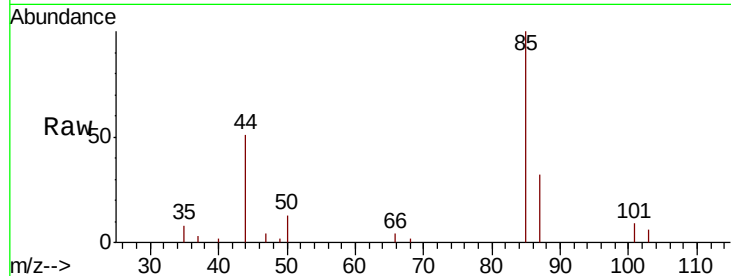
VSTD005302

Tot Ion: 85 Resp: 6852

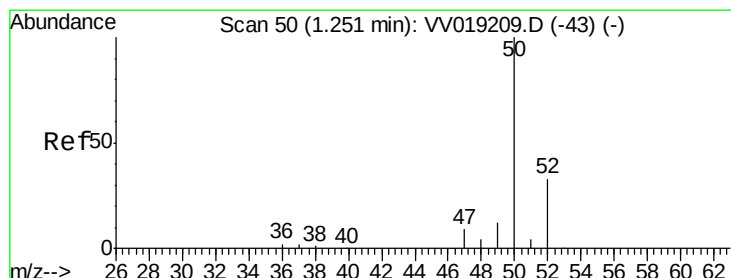
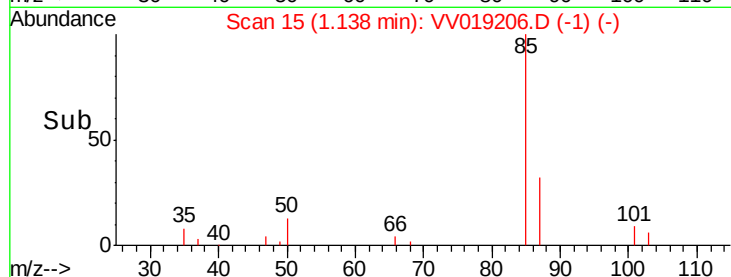
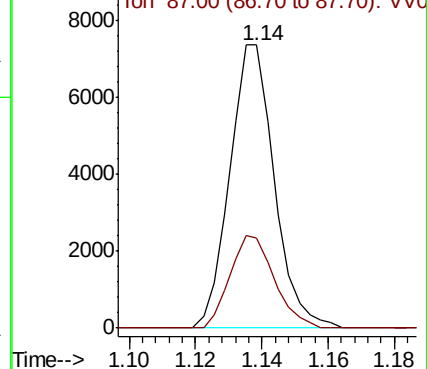
Ion Ratio Lower Upper

85 100

87 32.5 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VV019206.D (-8) (-)



#3

Chloromethane

Concen: 5.155 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV019206.D

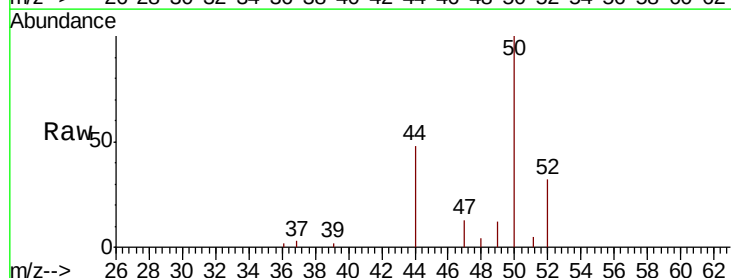
Acq: 02 Nov 2020 17:47

Tgt Ion: 50 Resp: 6879

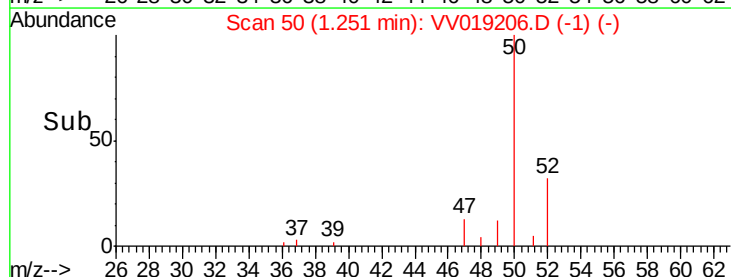
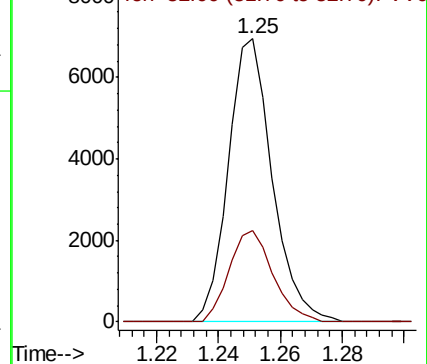
Ion Ratio Lower Upper

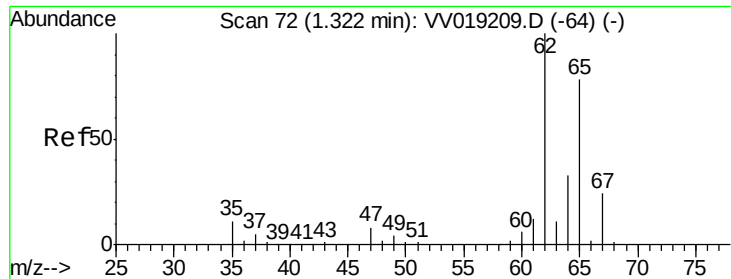
50 100

52 32.3 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VV019206.D (-43) (-)





#5

Vinyl chloride

Concen: 6.345 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV019206.D

Acq: 02 Nov 2020 17:47

Instrument :

MSVOA_V

ClientSampleId :

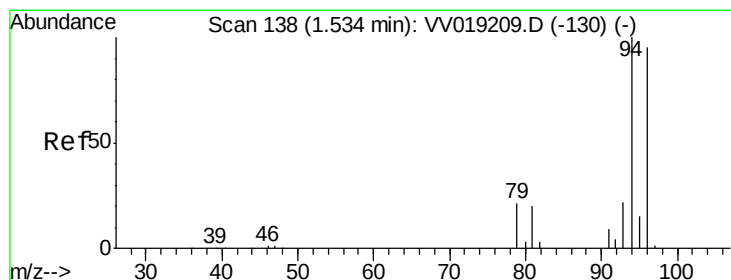
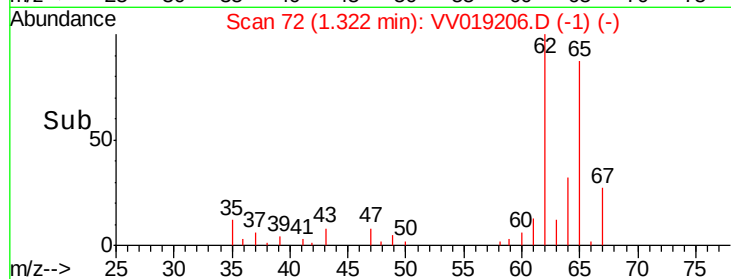
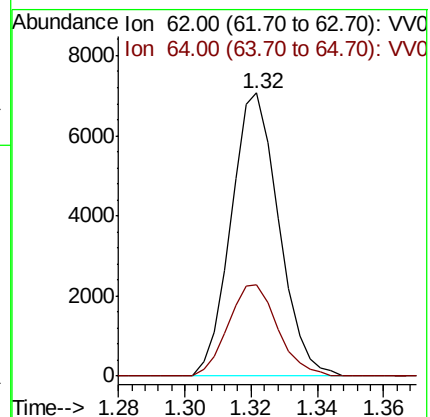
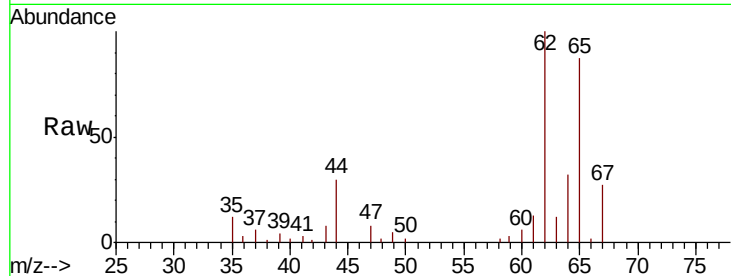
VSTD005302

Tot Ion: 62 Resp: 7068

Ion Ratio Lower Upper

62 100

64 32.2 23.3 43.3



#6

Bromomethane

Concen: 7.615 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV019206.D

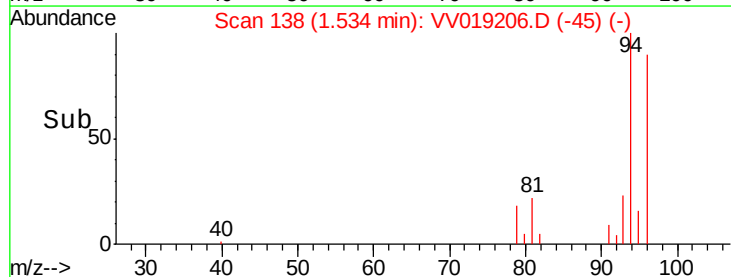
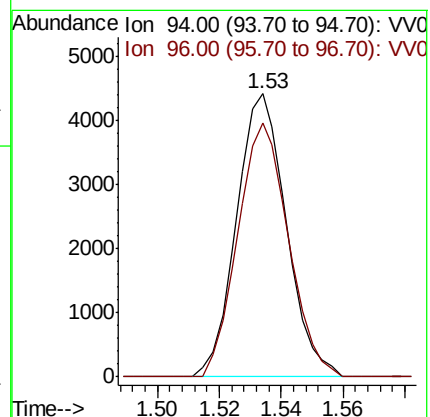
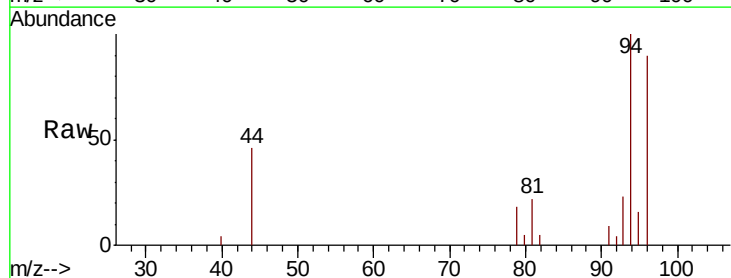
Acq: 02 Nov 2020 17:47

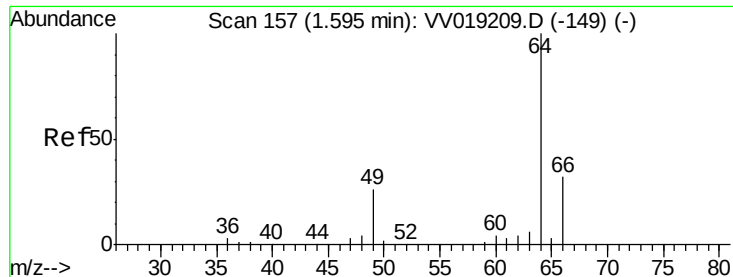
Tgt Ion: 94 Resp: 4930

Ion Ratio Lower Upper

94 100

96 89.7 66.4 123.2





#8

Chloroethane

Concen: 7.695 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV019206.D

Acq: 02 Nov 2020 17:47

Instrument :

MSVOA_V

ClientSampleId :

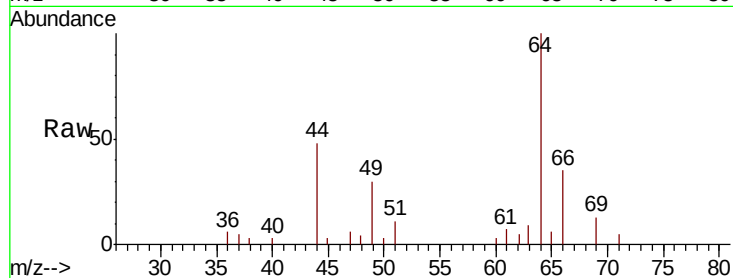
VSTD005302

Tot Ion: 64 Resp: 4672

Ion Ratio Lower Upper

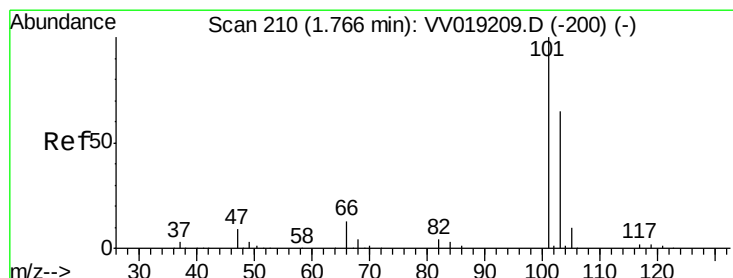
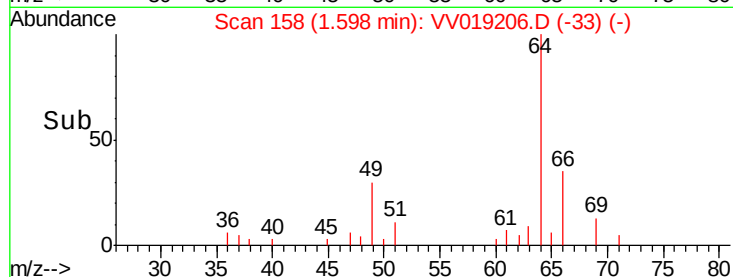
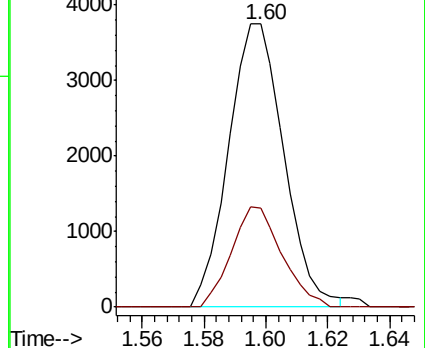
64 100

66 35.2 22.5 41.9



Abundance Ion 64.00 (63.70 to 64.70): VV019209.D (-149) (-)

Ion 66.00 (65.70 to 66.70): VV019209.D (-149) (-)



#9

Trichlorofluoromethane

Concen: 5.920 ug/L

RT: 1.77 min Scan# 210

Delta R.T. -0.00 min

Lab File: VV019206.D

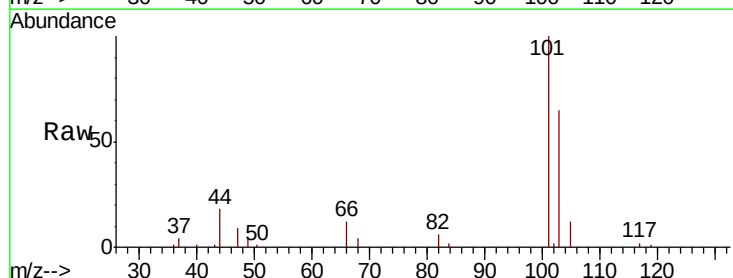
Acq: 02 Nov 2020 17:47

Tgt Ion: 101 Resp: 11716

Ion Ratio Lower Upper

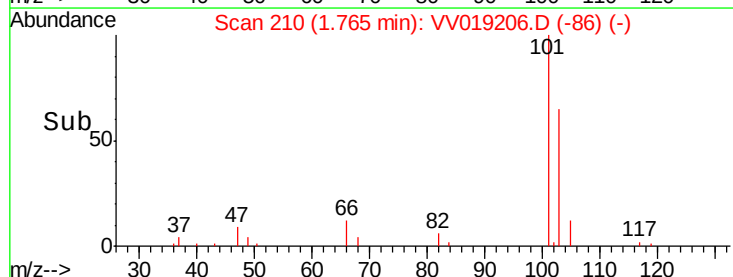
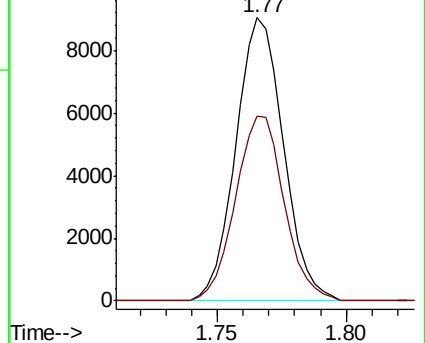
101 100

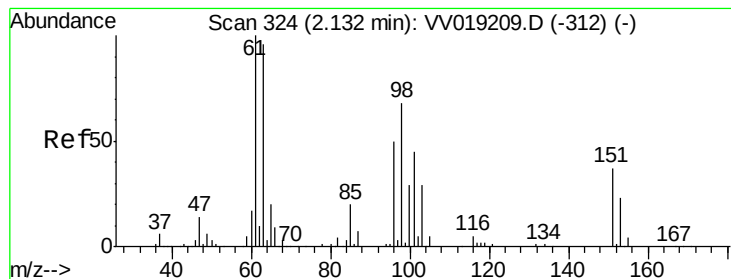
103 66.5 52.3 78.5



Abundance Ion 101.00 (100.70 to 101.70): VV019209.D (-200) (-)

Ion 103.00 (102.70 to 103.70): VV019209.D (-200) (-)





#10

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

Concen: 6.989 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV019206.D

Acq: 02 Nov 2020 17:47

Instrument :

MSVOA_V

ClientSampleId :

VSTD005302

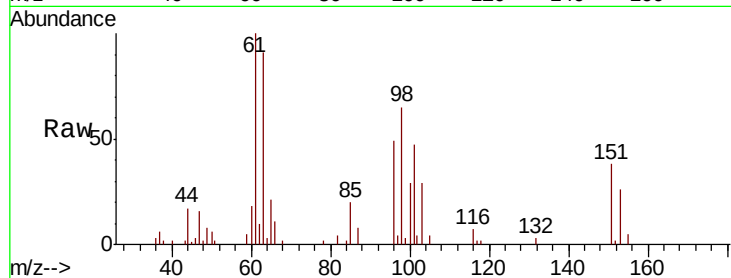
Tot Ion:101 Resp: 6040

Ion Ratio Lower Upper

101 100

85 41.9 35.6 53.4

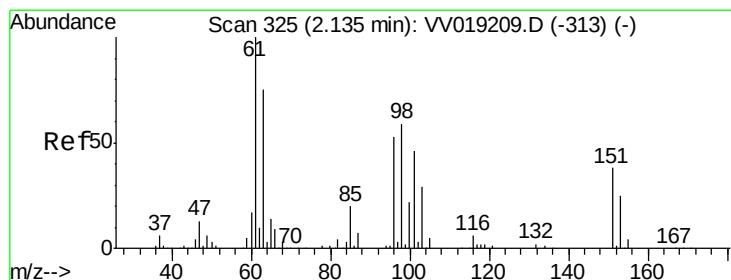
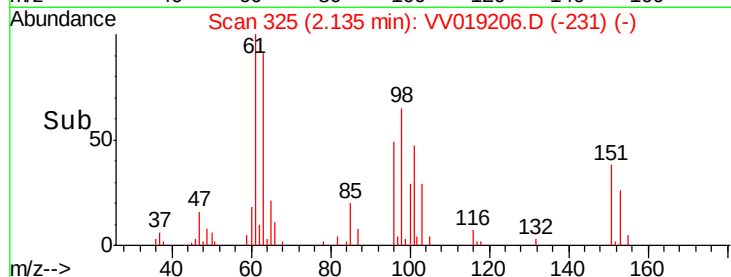
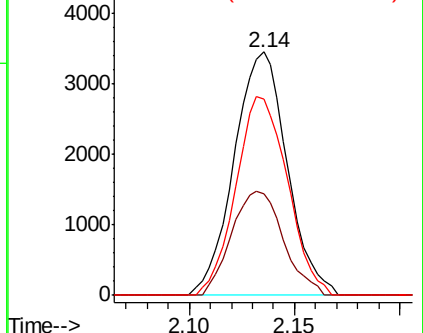
151 79.2 64.1 96.1



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: 6.736 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV019206.D

Acq: 02 Nov 2020 17:47

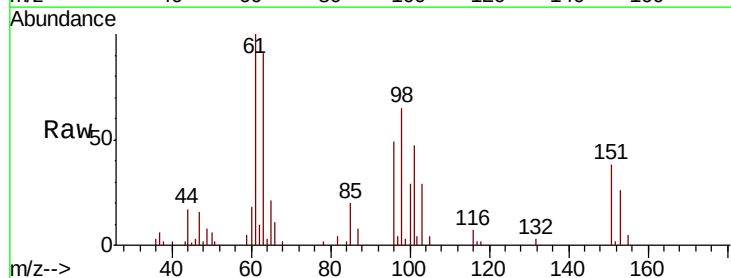
Tgt Ion: 96 Resp: 5529

Ion Ratio Lower Upper

96 100

61 202.7 133.6 248.0

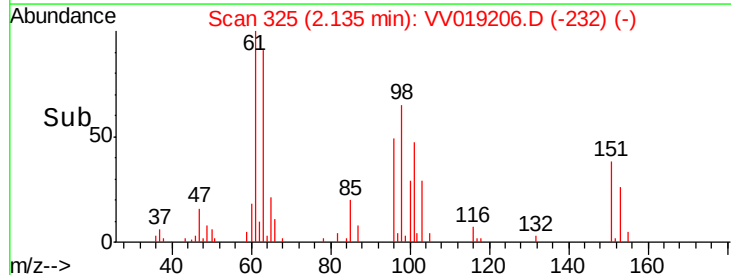
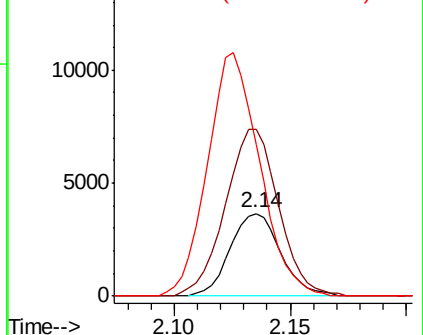
63 184.5 103.0 191.2

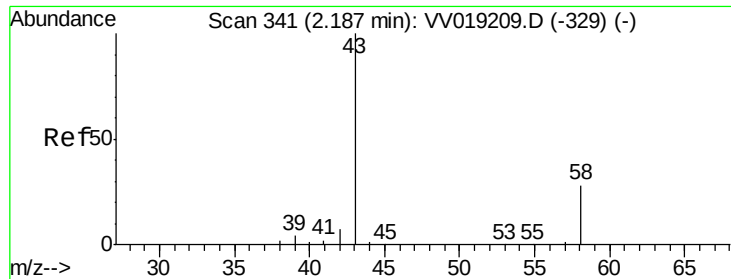


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 11.881 ug/L

RT: 2.19 min Scan# 343

Delta R.T. 0.01 min

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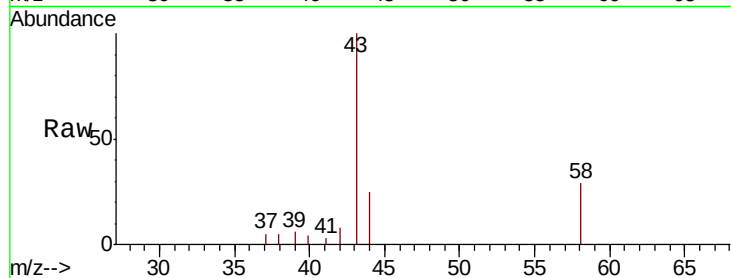
VSTD005302

Tot Ion: 43 Resp: 7827

Ion Ratio Lower Upper

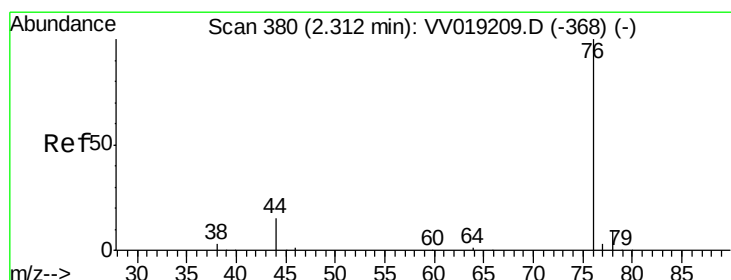
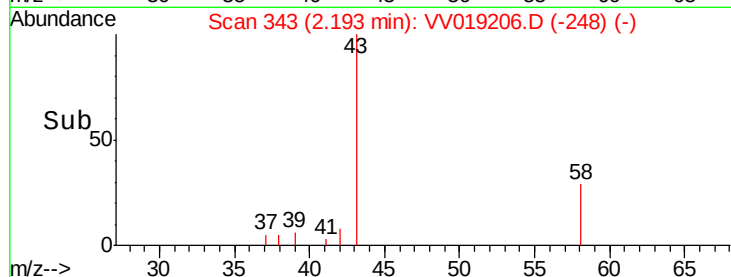
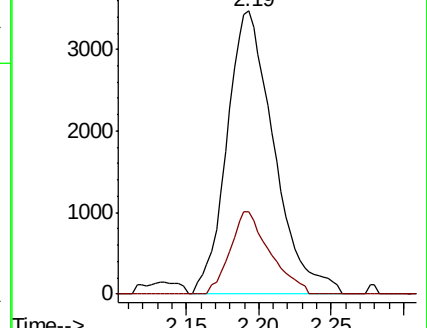
43 100

58 24.7 0.0 57.8



Abundance Ion 43.00 (42.70 to 43.70): VV019209.D (-329) (-)

Ion 58.00 (57.70 to 58.70): VV019209.D (-329) (-)



#14

Carbon disulfide

Concen: 4.930 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.00 min

Lab File: VV019206.D

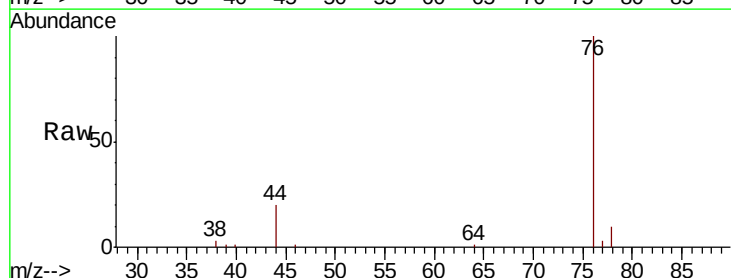
Acq: 02 Nov 2020 17:47

Tgt Ion: 76 Resp: 16476

Ion Ratio Lower Upper

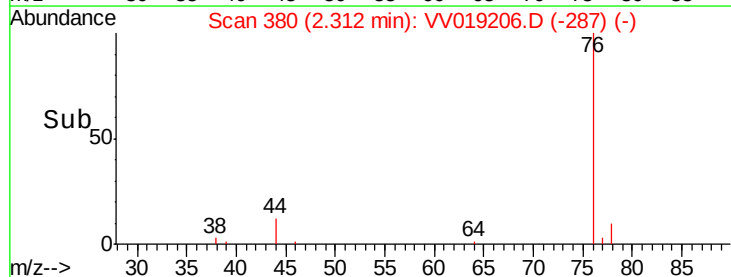
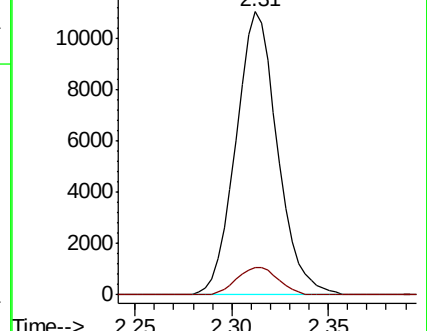
76 100

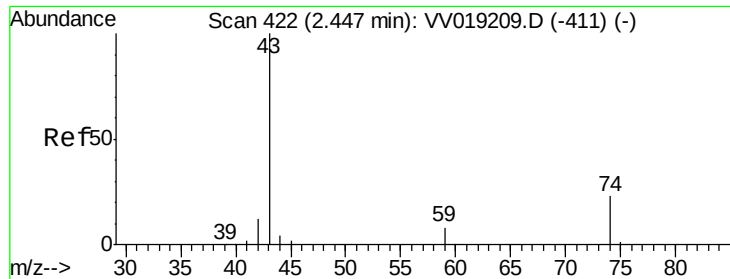
78 9.6 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VV019209.D (-368) (-)

Ion 78.00 (77.70 to 78.70): VV019209.D (-368) (-)

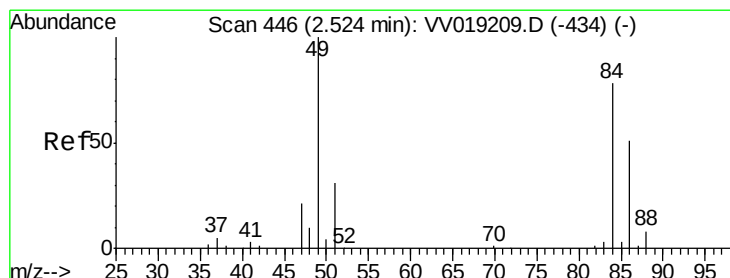
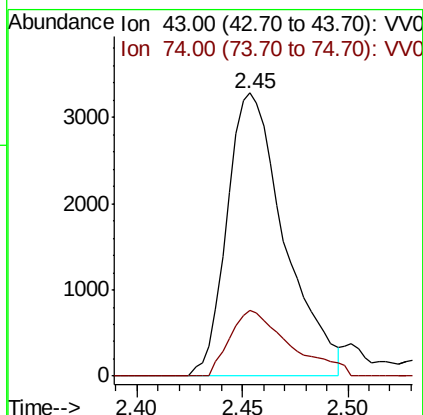
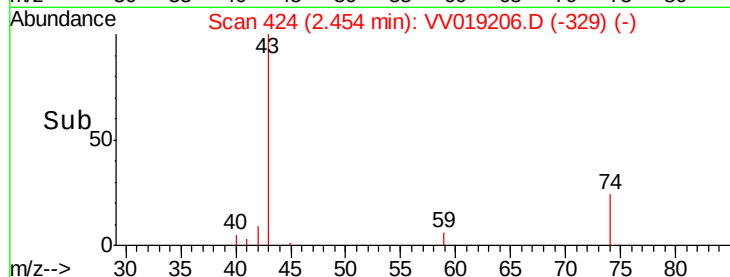
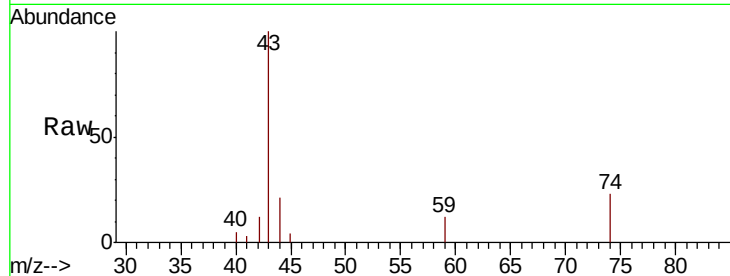




#15
Methvl Acetate
Concen: 4.994 ug/L
RT: 2.45 min Scan# 424
Delta R.T. 0.01 min
Lab File: VV019206.D
Acq: 02 Nov 2020 17:47

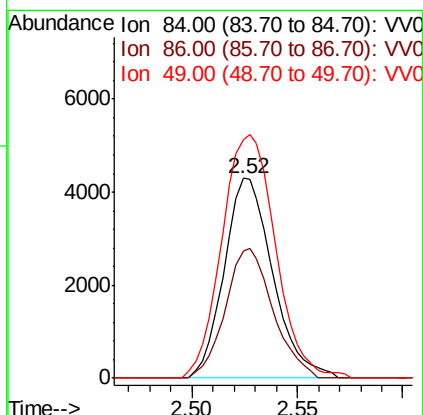
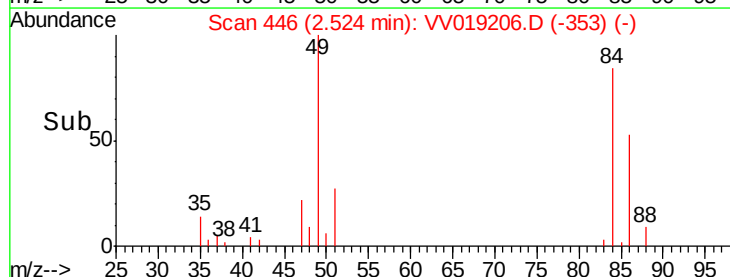
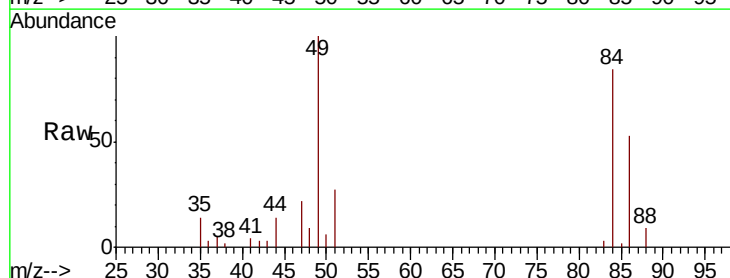
Instrument :
MSVOA_V
ClientSampleId :
VSTD005302

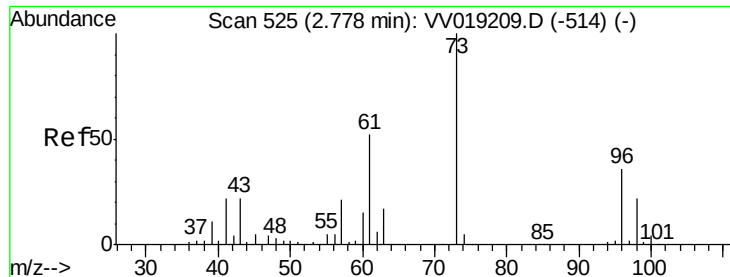
Tot Ion: 43 Resp: 6224
Ion Ratio Lower Upper
43 100
74 24.2 18.8 28.2



#16
Methylene chloride
Concen: 4.676 ug/L
RT: 2.52 min Scan# 446
Delta R.T. -0.00 min
Lab File: VV019206.D
Acq: 02 Nov 2020 17:47

Tgt Ion: 84 Resp: 6875
Ion Ratio Lower Upper
84 100
86 63.8 45.6 84.8
49 119.3 89.3 165.9





#17

trans-1,2-Dichloroethene

Concen: 4.384 ug/L

RT: 2.78 min Scan# 527

Delta R.T. 0.01 min

Lab File: VV019206.D

Acq: 02 Nov 2020 17:47

Instrument :

MSVOA_V

ClientSampleId :

VSTD005302

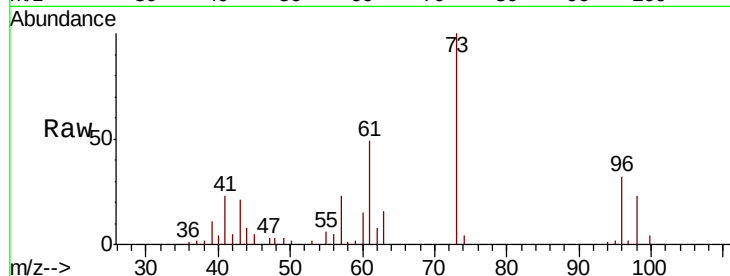
Tot Ion: 96 Resp: 5886

Ion Ratio Lower Upper

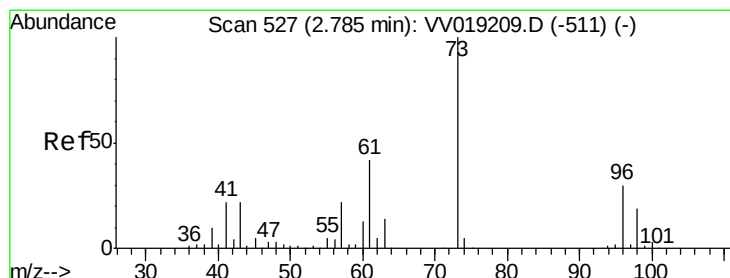
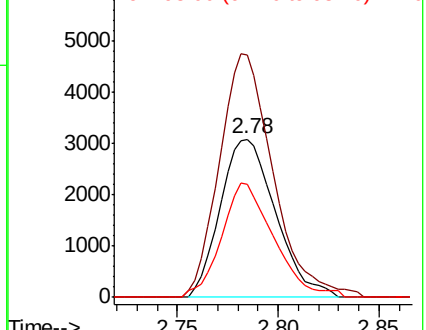
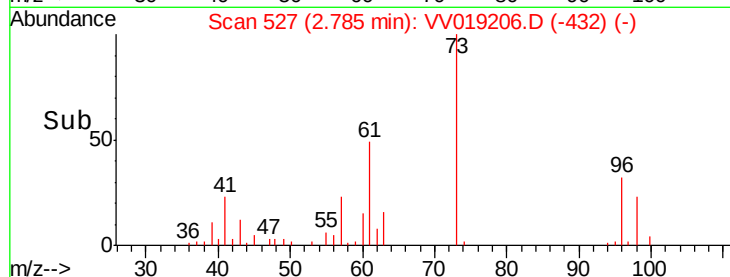
96 100

61 153.3 100.7 187.1

98 71.3 42.9 79.7



Abundance Ion 96.00 (95.70 to 96.70): VV019206.D (-432) (-)



#18

Methyl tert-butyl Ether

Concen: 4.601 ug/L

RT: 2.78 min Scan# 527

Delta R.T. -0.00 min

Lab File: VV019206.D

Acq: 02 Nov 2020 17:47

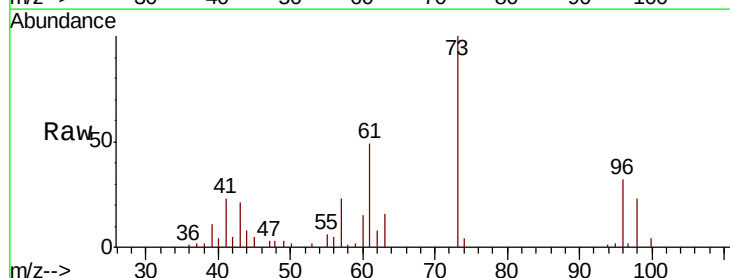
Tgt Ion: 73 Resp: 20880

Ion Ratio Lower Upper

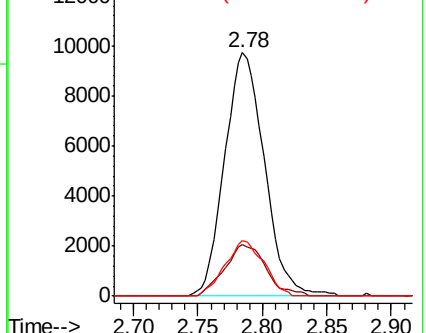
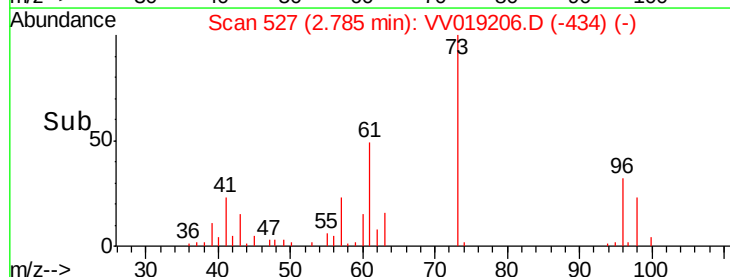
73 100

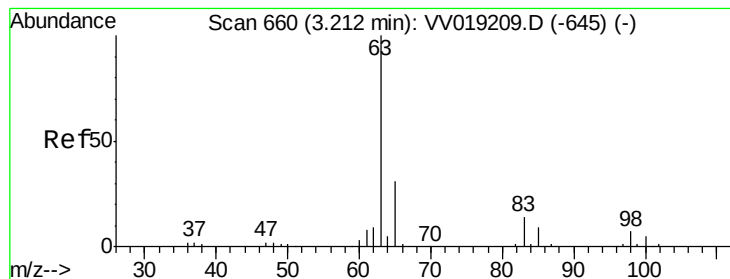
43 22.1 17.9 26.9

57 22.1 17.1 25.7



Abundance Ion 73.00 (72.70 to 73.70): VV019206.D (-434) (-)





#19

1,1-Dichloroethane

Concen: 4.847 ug/L

RT: 3.22 min Scan# 661

Delta R.T. 0.00 min

Lab File: VV019206.D

Acq: 02 Nov 2020 17:47

Instrument :

MSVOA_V

ClientSampleId :

VSTD005302

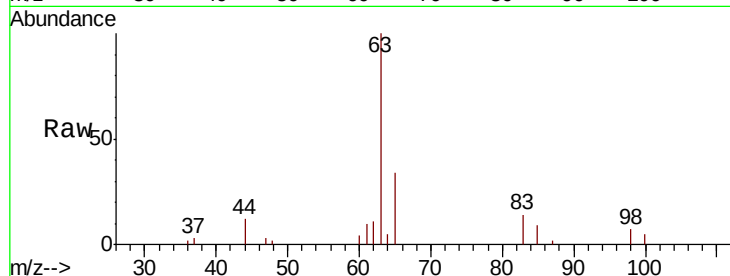
Tot Ion: 63 Resp: 11828

Ion Ratio Lower Upper

63 100

65 33.8 21.8 40.6

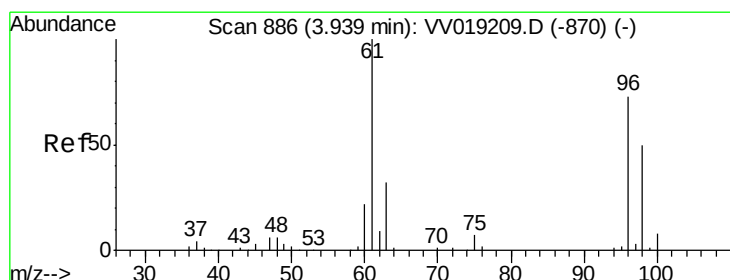
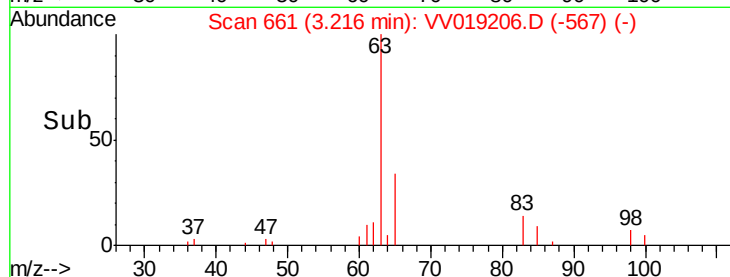
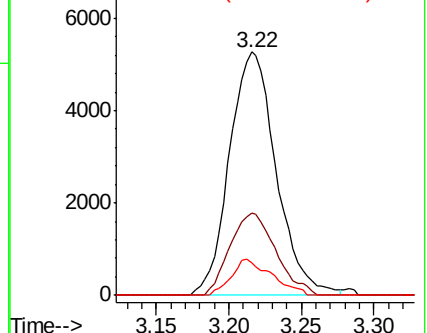
83 13.5 9.5 17.7



Abundance Ion 63.00 (62.70 to 63.70): VV019209.D (-645) (-)

Ion 65.00 (64.70 to 65.70): VV019209.D (-645) (-)

Ion 83.00 (82.70 to 83.70): VV019209.D (-645) (-)



#20

cis-1,2-Dichloroethene

Concen: 1.943 ug/L

RT: 3.94 min Scan# 887

Delta R.T. 0.00 min

Lab File: VV019206.D

Acq: 02 Nov 2020 17:47

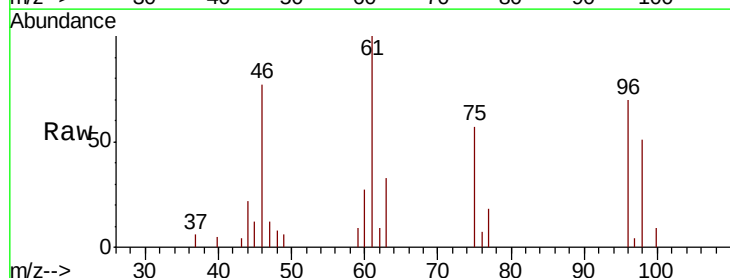
Tgt Ion: 96 Resp: 3042

Ion Ratio Lower Upper

96 100

61 143.3 95.6 177.6

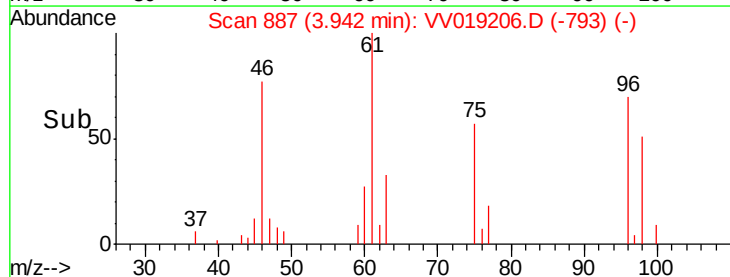
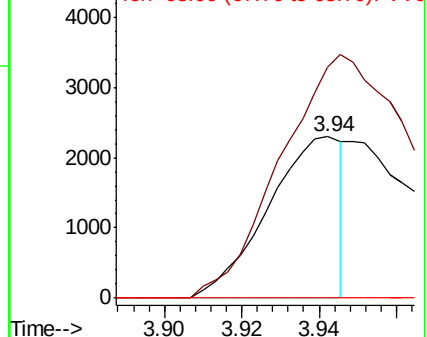
68 0.0 0.0 0.0

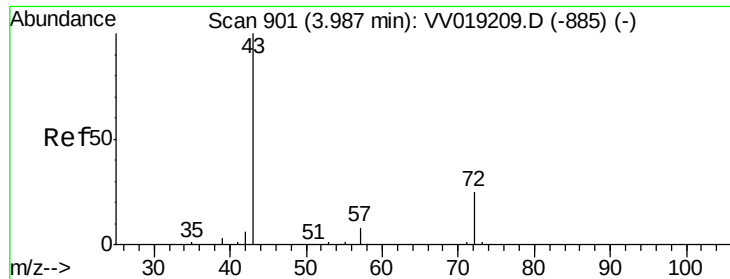


Abundance Ion 96.00 (95.70 to 96.70): VV019209.D (-870) (-)

Ion 61.00 (60.70 to 61.70): VV019209.D (-870) (-)

Ion 68.00 (67.70 to 68.70): VV019209.D (-870) (-)





#22

2-Butanone

Concen: 6.296 ug/L

RT: 4.02 min Scan# 912

Delta R.T. 0.04 min

Lab File: VV019206.D

Acq: 02 Nov 2020 17:47

Instrument :

MSVOA_V

ClientSampleId :

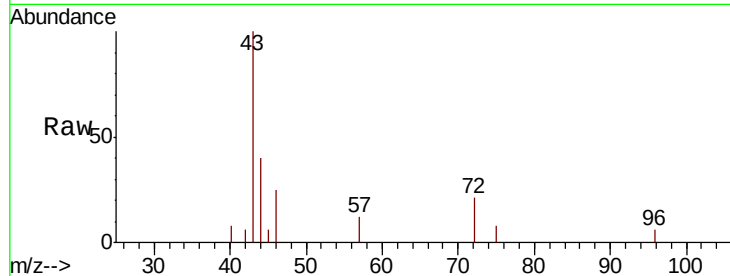
VSTD005302

Tot Ion: 43 Resp: 6044

Ion Ratio Lower Upper

43 100

72 23.4 12.7 38.0



Abundance Ion 43.00 (42.70 to 43.70): VV019209.D (-885) (-)

Ion 72.00 (71.70 to 72.70): VV019209.D (-885) (-)

4.02

2000

1500

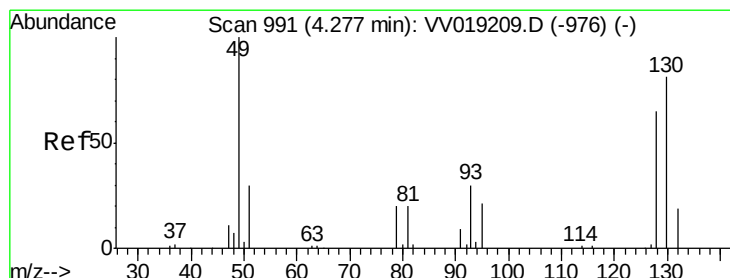
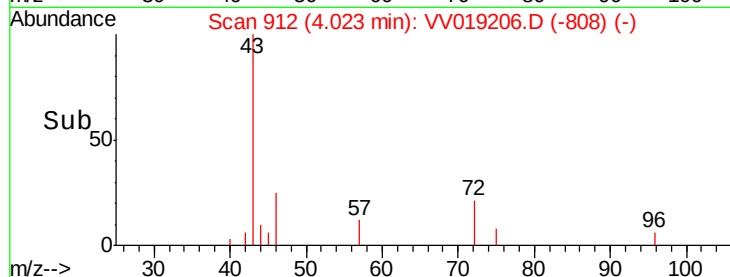
1000

500

0

3.95 4.00 4.05 4.10

Time-->



#23

Bromochloromethane

Concen: 4.430 ug/L

RT: 4.29 min Scan# 995

Delta R.T. 0.01 min

Lab File: VV019206.D

Acq: 02 Nov 2020 17:47

Tgt Ion: 128 Resp: 3505

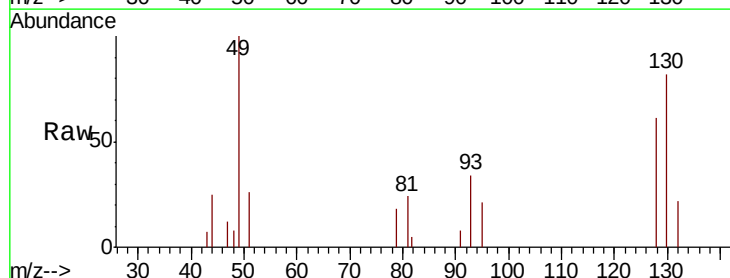
Ion Ratio Lower Upper

128 100

49 163.5 108.8 202.2

130 134.5 88.5 164.3

51 42.9 37.8 56.6



Abundance Ion 128.00 (127.70 to 128.70): VV019206.D (-898) (-)

Ion 49.00 (48.70 to 49.70): VV019206.D (-898) (-)

Ion 130.00 (129.70 to 130.70): VV019206.D (-898) (-)

Ion 51.00 (50.70 to 51.70): VV019206.D (-898) (-)

3000

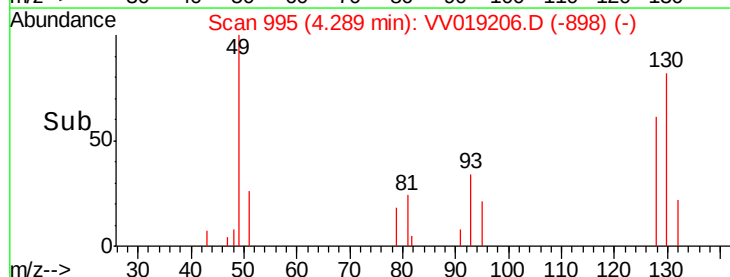
2000

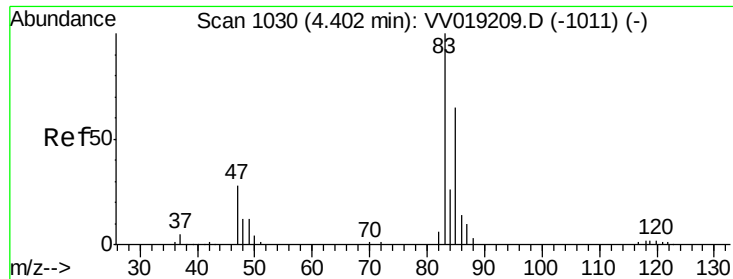
1000

0

4.25 4.30 4.35

Time-->

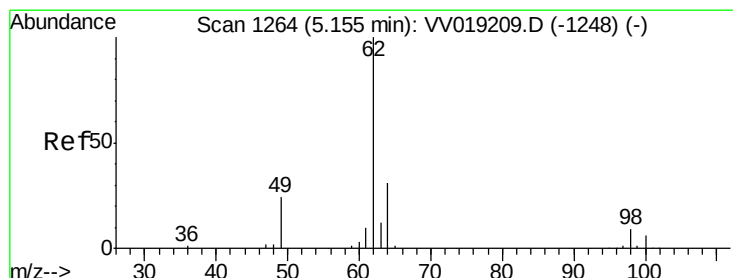
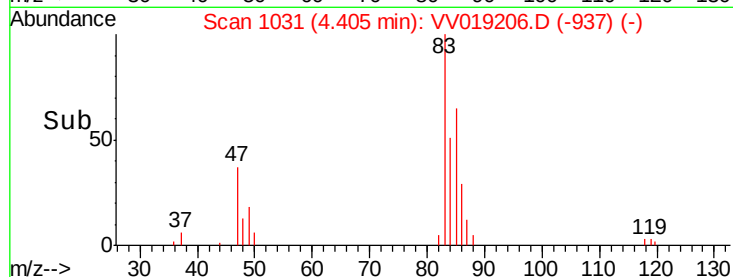
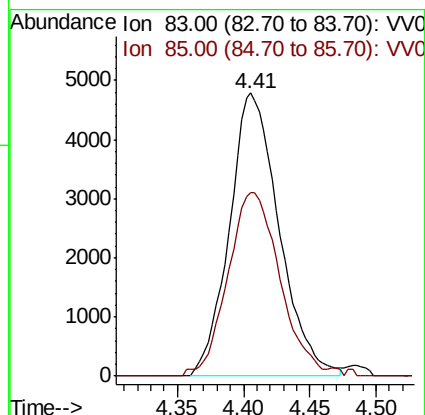
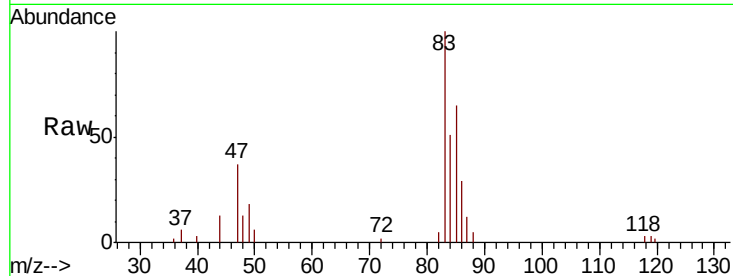




#25
Chloroform
Concen: 4.536 ug/L
RT: 4.41 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VV019206.D
Acq: 02 Nov 2020 17:47

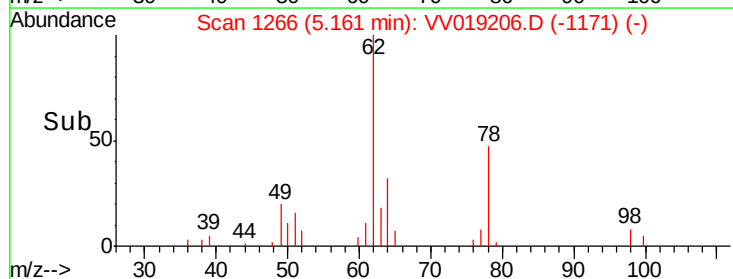
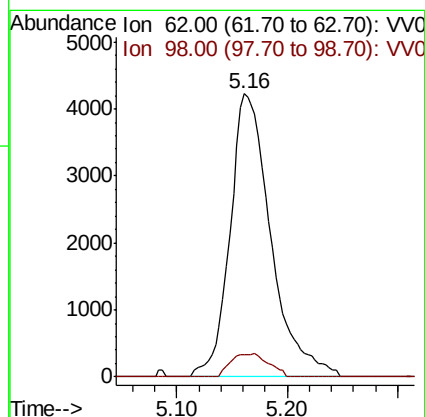
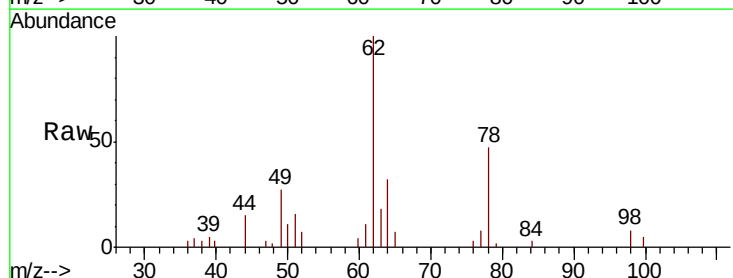
Instrument :
MSVOA_V
ClientSampleId :
VSTD005302

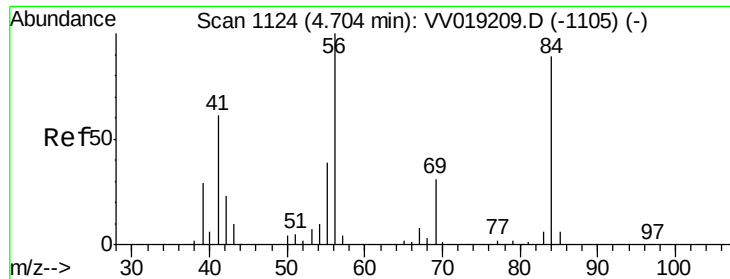
Tot Ion: 83 Resp: 12468
Ion Ratio Lower Upper
83 100
85 65.0 45.4 84.4



#27
1,2-Dichloroethane
Concen: 5.141 ug/L
RT: 5.16 min Scan# 1266
Delta R.T. 0.01 min
Lab File: VV019206.D
Acq: 02 Nov 2020 17:47

Tgt Ion: 62 Resp: 10851
Ion Ratio Lower Upper
62 100
98 7.8 6.8 10.2

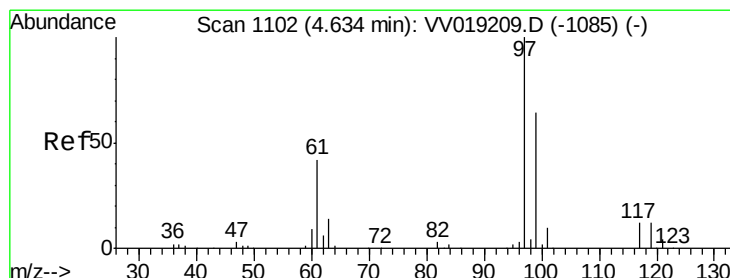
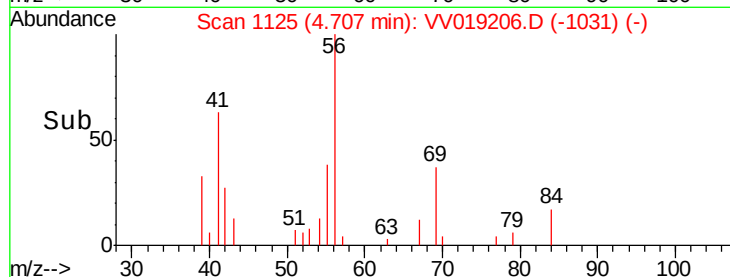
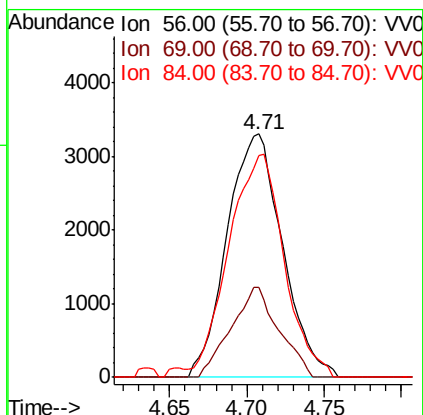
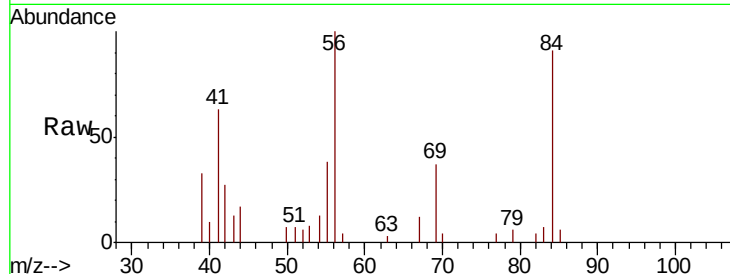




#29
Cyclohexane
Concen: 3.851 ug/L
RT: 4.71 min Scan# 1125
Delta R.T. 0.00 min
Lab File: VV019206.D
Acq: 02 Nov 2020 17:47

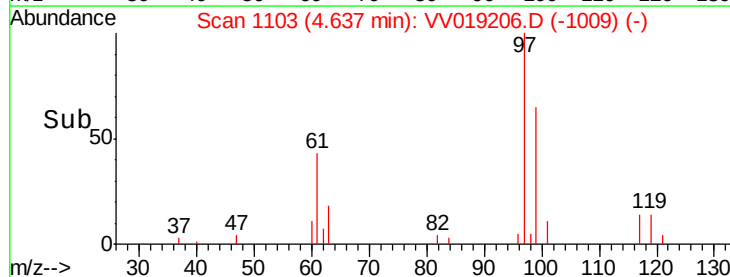
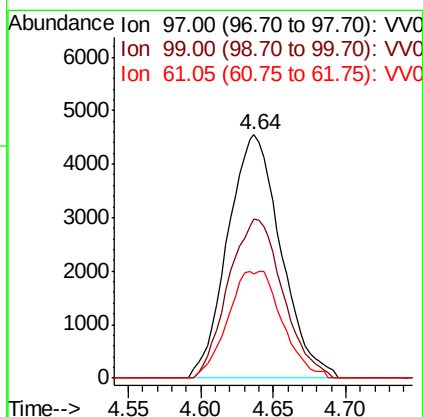
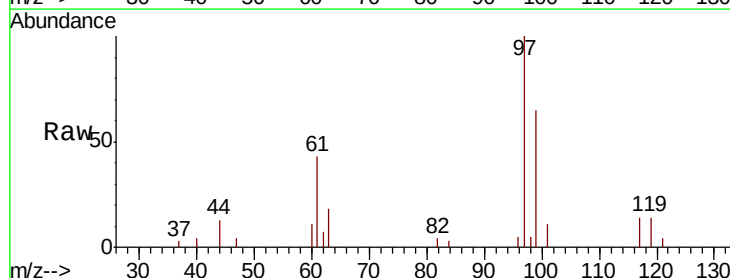
Instrument :
MSVOA_V
ClientSampleId :
VSTD005302

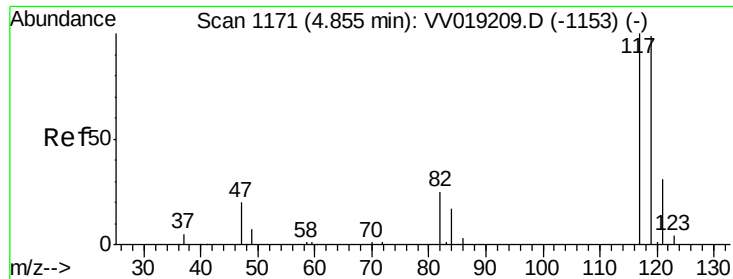
Tot Ion: 56 Resp: 8243
Ion Ratio Lower Upper
56 100
69 31.8 24.6 36.8
84 91.6 70.5 105.7



#30
1,1,1-Trichloroethane
Concen: 4.594 ug/L
RT: 4.64 min Scan# 1103
Delta R.T. 0.00 min
Lab File: VV019206.D
Acq: 02 Nov 2020 17:47

Tgt Ion: 97 Resp: 11591
Ion Ratio Lower Upper
97 100
99 66.9 52.0 78.0
61 22.9 35.3 52.9#





#31

Carbon tetrachloride

Concen: 4.493 ug/L

RT: 4.85 min Scan# 1170

Delta R.T. -0.00 min

Lab File: VV019206.D

Acq: 02 Nov 2020 17:47

Instrument :

MSVOA_V

ClientSampleId :

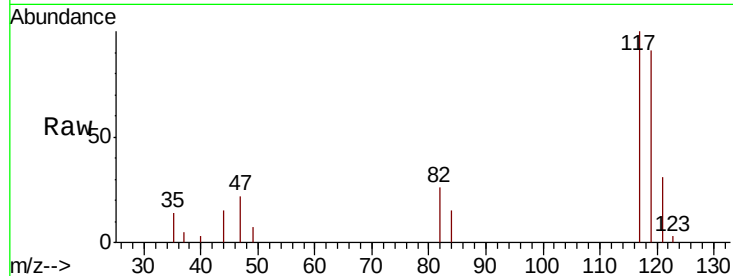
VSTD005302

Tot Ion:117 Resp: 10070

Ion Ratio Lower Upper

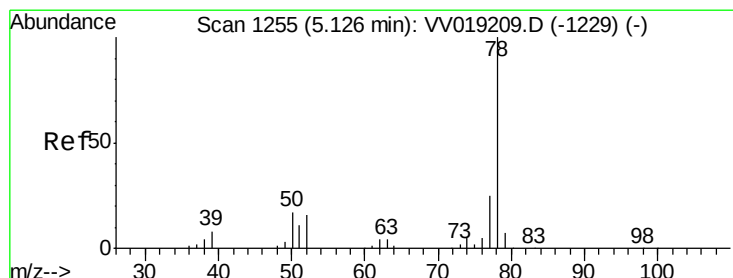
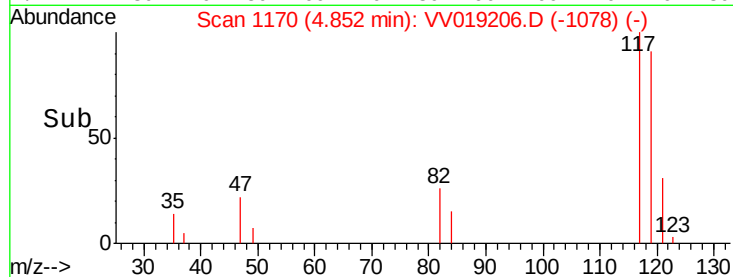
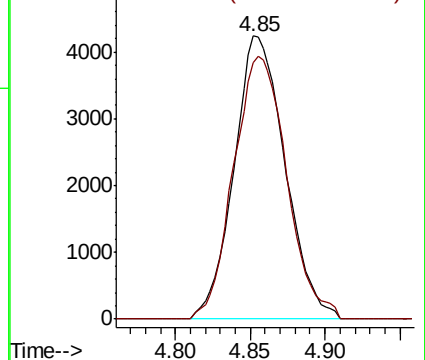
117 100

119 96.7 77.8 116.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 4.288 ug/L

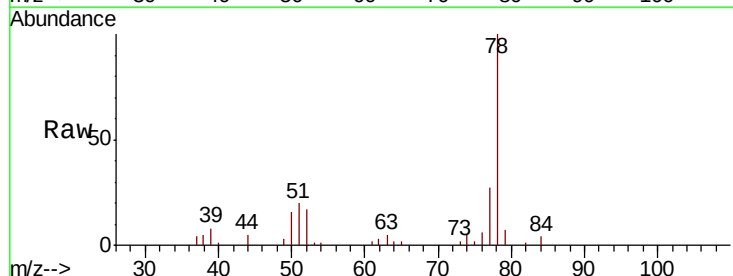
RT: 5.13 min Scan# 1257

Delta R.T. 0.01 min

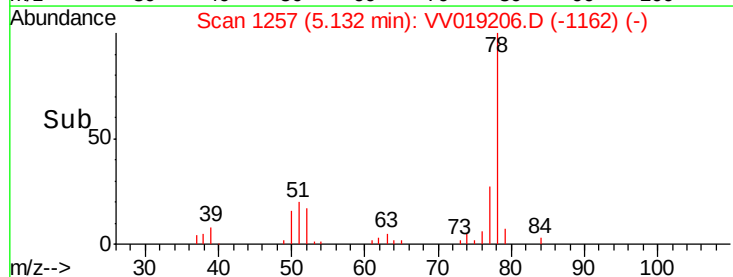
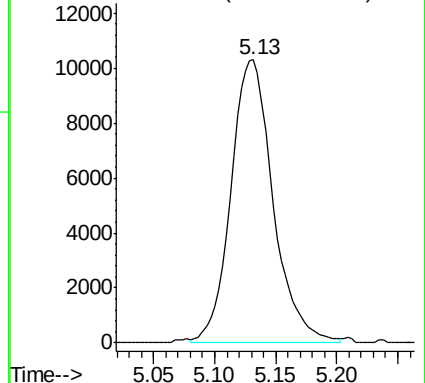
Lab File: VV019206.D

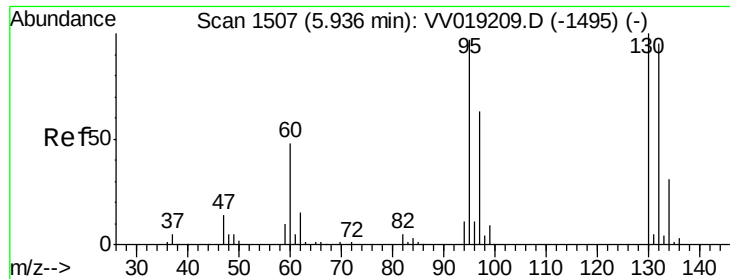
Acq: 02 Nov 2020 17:47

Tgt Ion: 78 Resp: 24758



Abundance Ion 78.00 (77.70 to 78.70): VV0





#34

Trichloroethene

Concen: 4.529 ug/L

RT: 5.94 min Scan# 1509

Delta R.T. 0.01 min

Lab File: VV019206.D

Acq: 02 Nov 2020 17:47

Instrument :

MSVOA_V

ClientSampleId :

VSTD005302

Tot Ion: 95 Resp: 7138

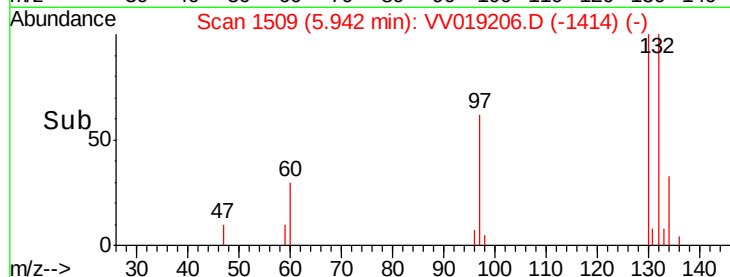
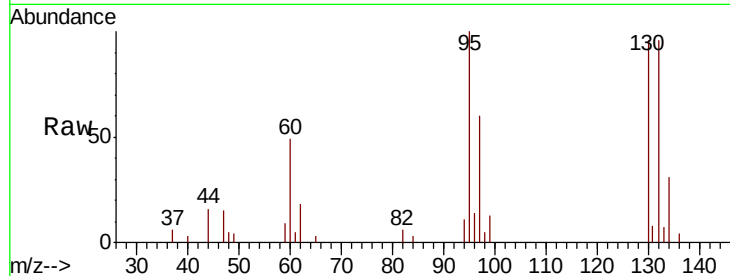
Ion Ratio Lower Upper

95 100

97 59.8 45.4 84.4

132 95.9 68.5 127.3

130 96.2 72.0 133.6

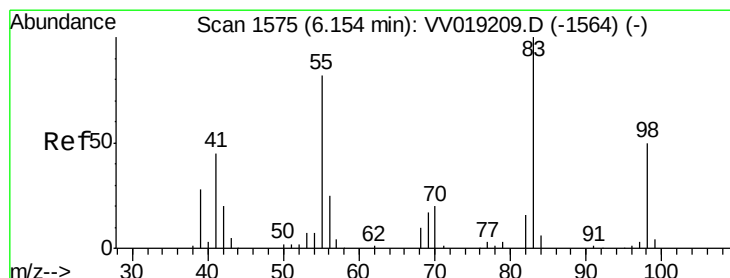
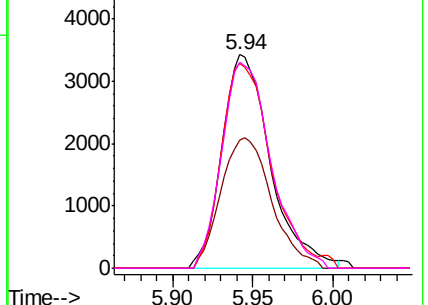


Abundance Ion 95.00 (94.70 to 95.70): VV0

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: 3.422 ug/L

RT: 6.16 min Scan# 1576

Delta R.T. 0.00 min

Lab File: VV019206.D

Acq: 02 Nov 2020 17:47

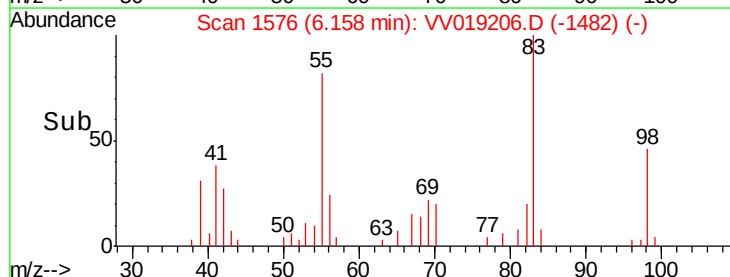
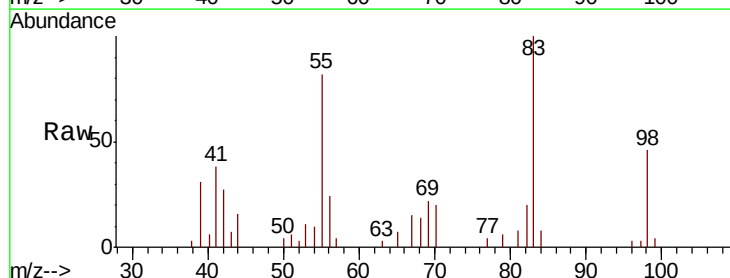
Tgt Ion: 83 Resp: 8130

Ion Ratio Lower Upper

83 100

55 83.9 62.8 94.2

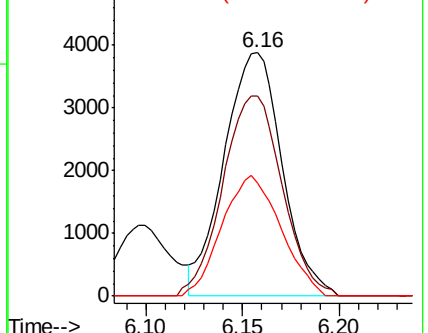
98 49.9 38.6 58.0

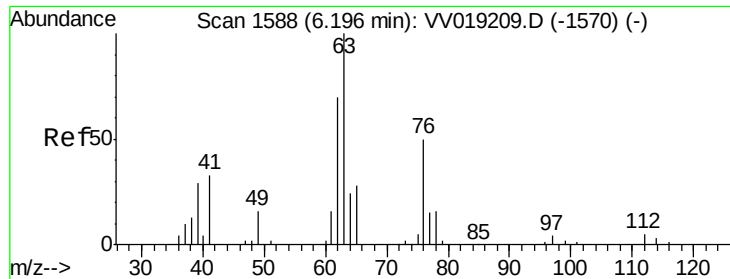


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

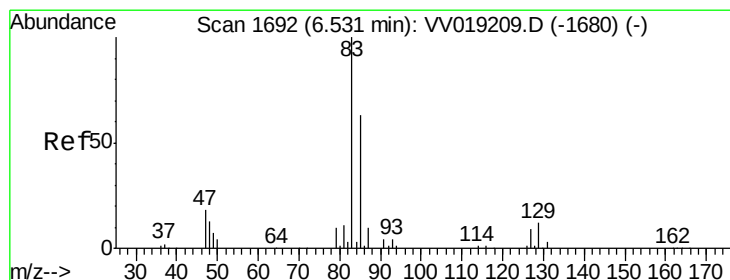
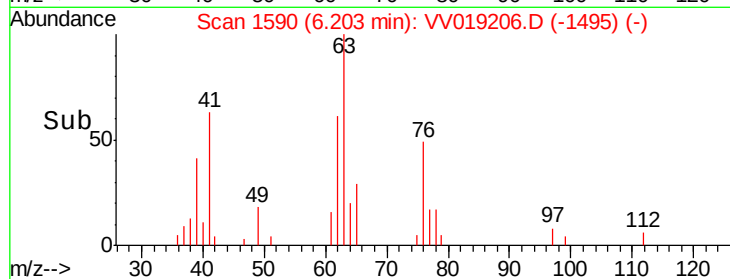
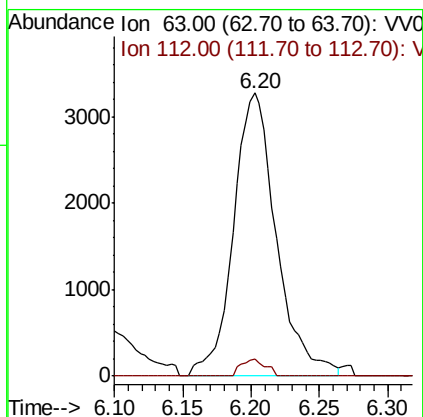
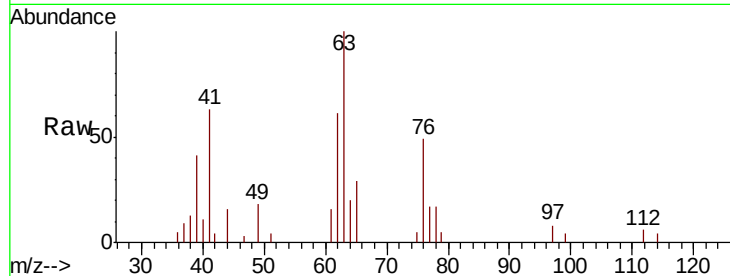




#37
 1,2-Dichloropropane
 Concen: 5.040 ug/L
 RT: 6.20 min Scan# 1590
 Delta R.T. 0.01 min
 Lab File: VV019206.D
 Acq: 02 Nov 2020 17:47

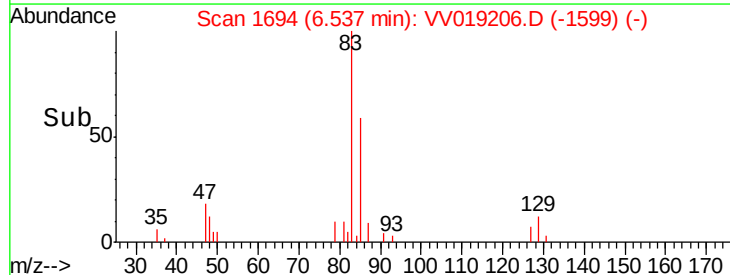
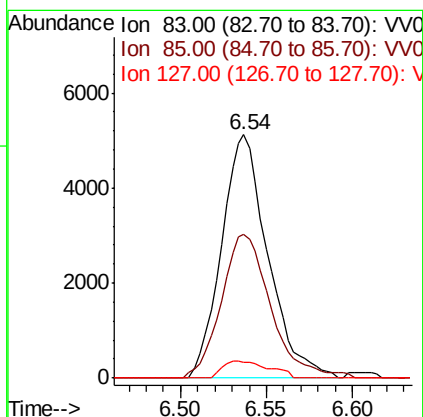
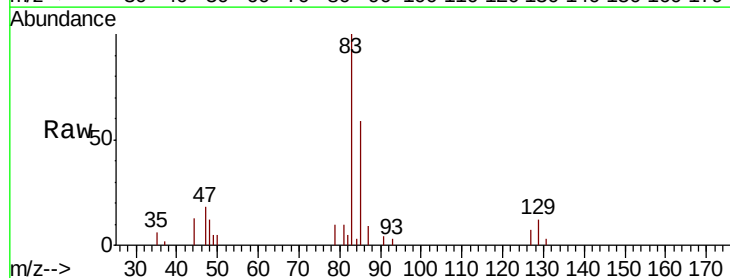
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD005302

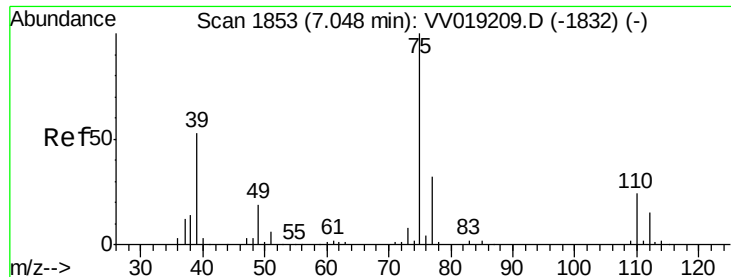
Tot Ion: 63 Resp: 7166
 Ion Ratio Lower Upper
 63 100
 112 2.9 4.2 6.2#



#38
 Bromodichloromethane
 Concen: 4.358 ug/L
 RT: 6.54 min Scan# 1694
 Delta R.T. 0.01 min
 Lab File: VV019206.D
 Acq: 02 Nov 2020 17:47

Tgt Ion: 83 Resp: 9585
 Ion Ratio Lower Upper
 83 100
 85 59.2 44.0 81.8
 127 6.7 7.3 10.9#

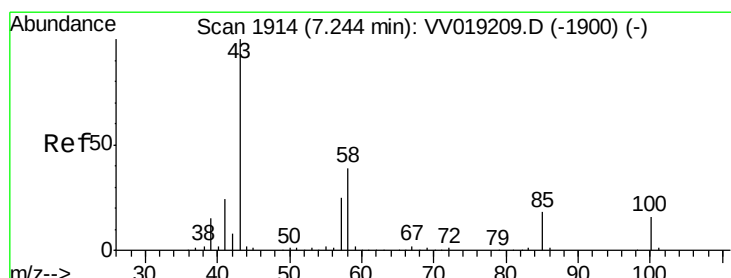
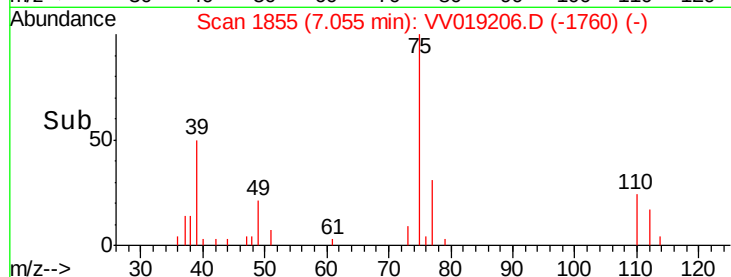
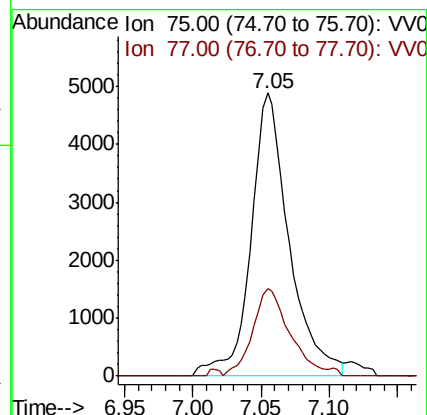
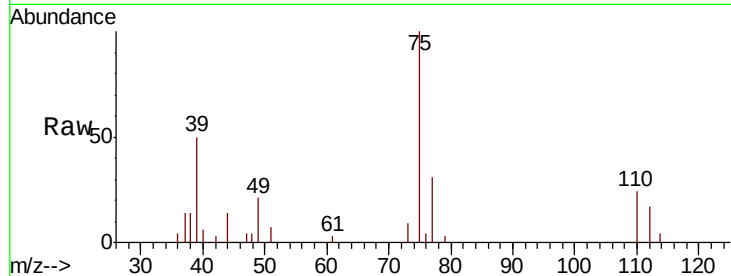




#39
 cis-1,3-Dichloropropene
 Concen: 3.834 ug/L
 RT: 7.05 min Scan# 1855
 Delta R.T. 0.01 min
 Lab File: VV019206.D
 Acq: 02 Nov 2020 17:47

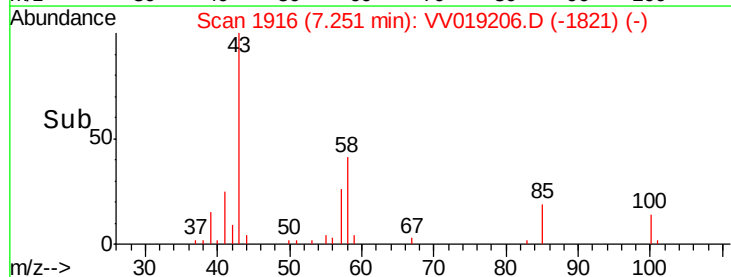
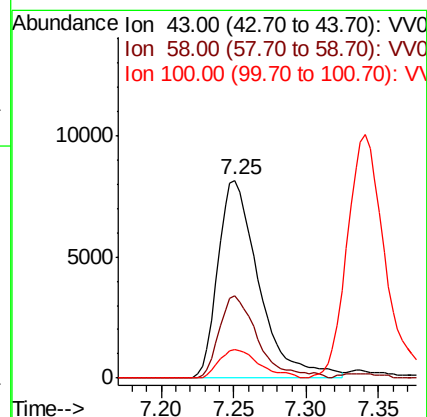
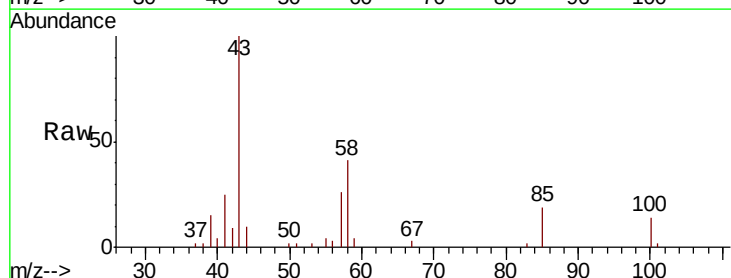
Instrument :
 MSVOA_V
 ClientSampled :
 VSTD005302

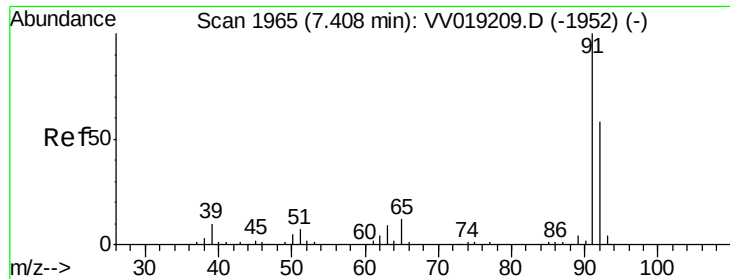
Tot Ion: 75 Resp: 9501
 Ion Ratio Lower Upper
 75 100
 77 30.9 22.2 41.2



#40
 4-Methyl-2-pentanone
 Concen: 8.761 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. 0.01 min
 Lab File: VV019206.D
 Acq: 02 Nov 2020 17:47

Tgt Ion: 43 Resp: 16020
 Ion Ratio Lower Upper
 43 100
 58 36.7 30.5 45.7
 100 13.2 12.7 19.1





#42

Toluene

Concen: 4.021 ug/L

RT: 7.41 min Scan# 1966

Delta R.T. 0.00 min

Lab File: VV019206.D

Acq: 02 Nov 2020 17:47

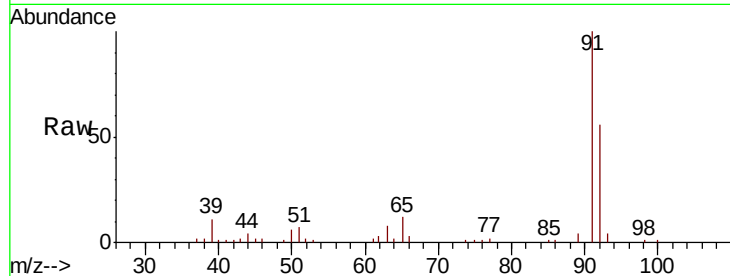
Instrument :
MSVOA_V
ClientSampleId :
VSTD005302

Tot Ion: 91 Resp: 25499

Ion Ratio Lower Upper

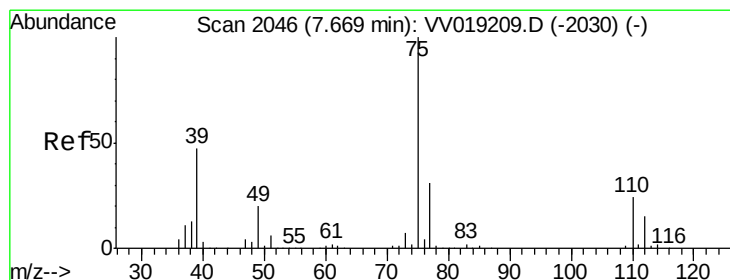
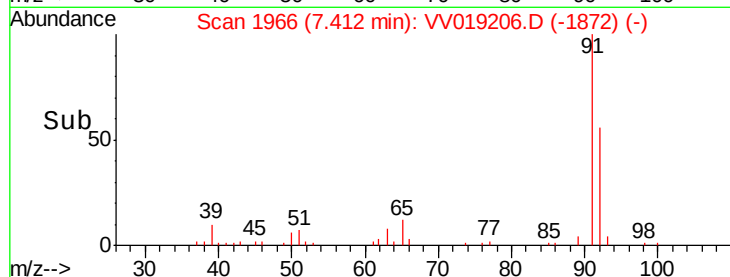
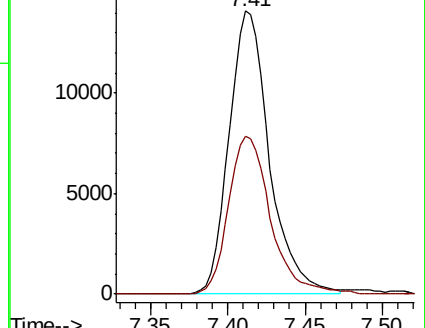
91 100

92 55.6 40.6 75.4



Abundance Ion 91.00 (90.70 to 91.70): VV019209.D (-1952) (-)

Ion 92.00 (91.70 to 92.70): VV019206.D (-1872) (-)



#44

trans-1,3-Dichloropropene

Concen: 4.201 ug/L

RT: 7.68 min Scan# 2049

Delta R.T. 0.01 min

Lab File: VV019206.D

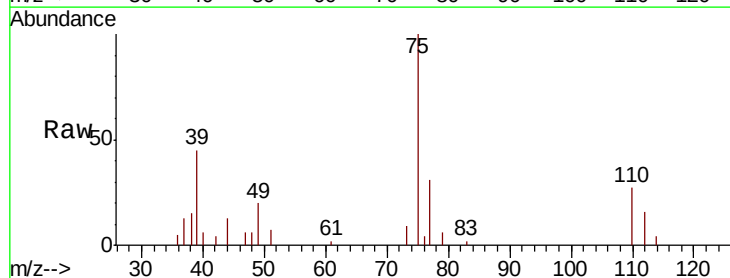
Acq: 02 Nov 2020 17:47

Tgt Ion: 75 Resp: 9924

Ion Ratio Lower Upper

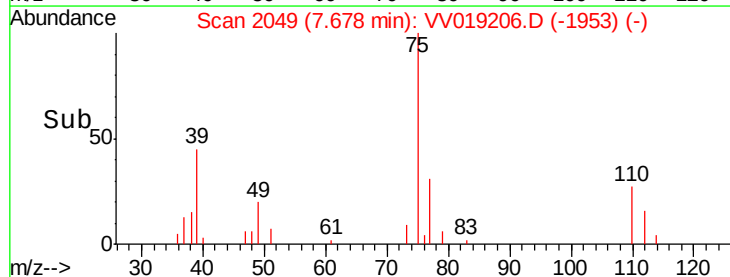
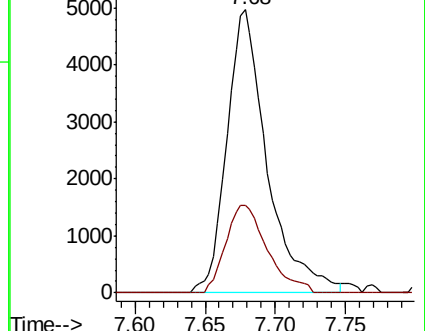
75 100

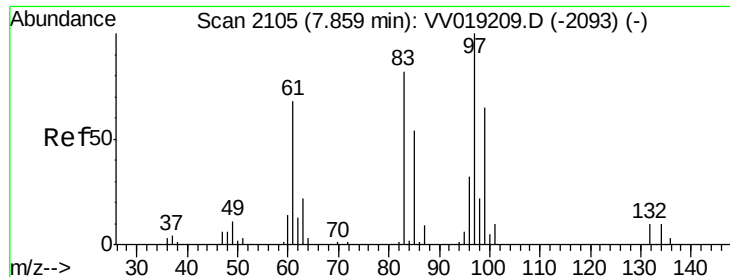
77 31.1 21.6 40.2



Abundance Ion 75.00 (74.70 to 75.70): VV019209.D (-2030) (-)

Ion 77.00 (76.70 to 77.70): VV019206.D (-1953) (-)

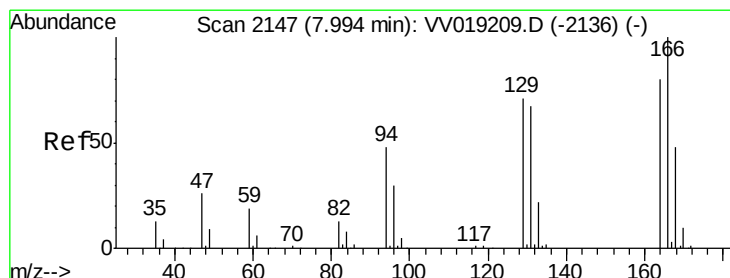
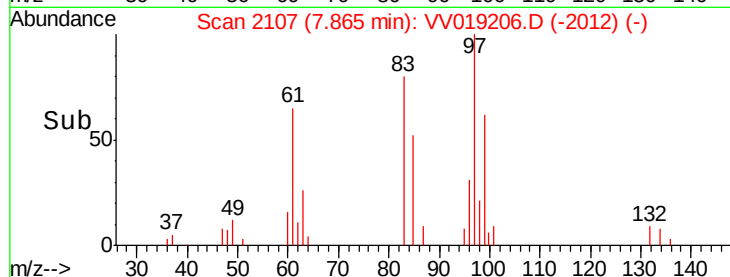
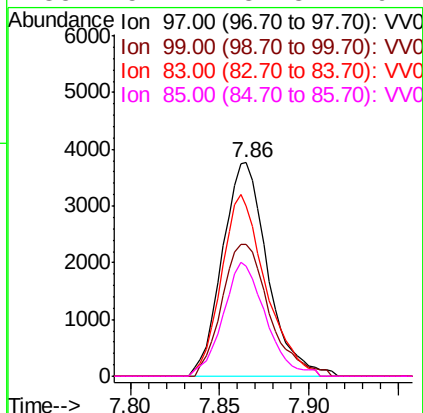
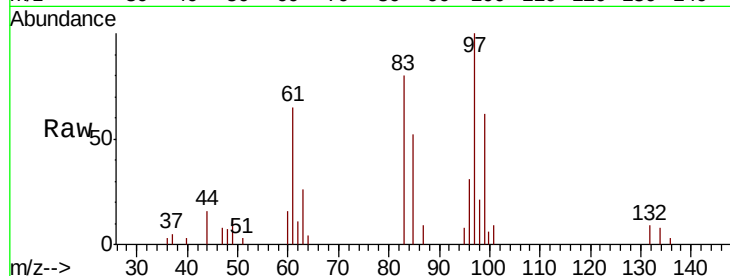




#45
 1,1,2-Trichloroethane
 Concen: 4.403 ug/L
 RT: 7.86 min Scan# 2107
 Delta R.T. 0.01 min
 Lab File: VV019206.D
 Acq: 02 Nov 2020 17:47

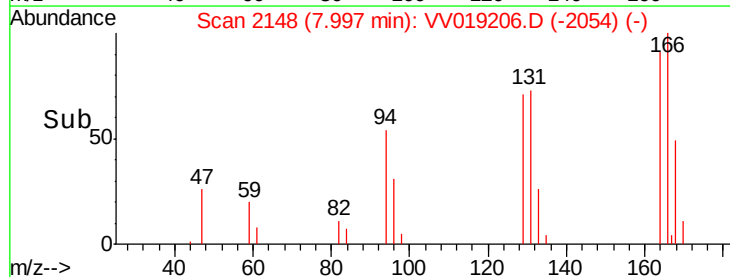
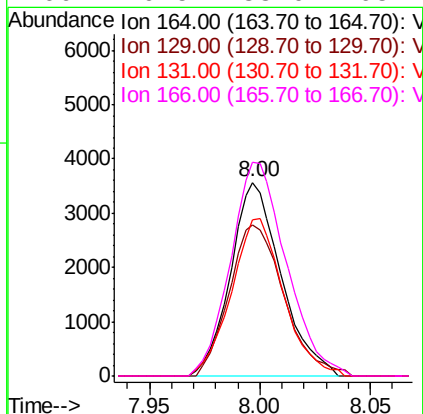
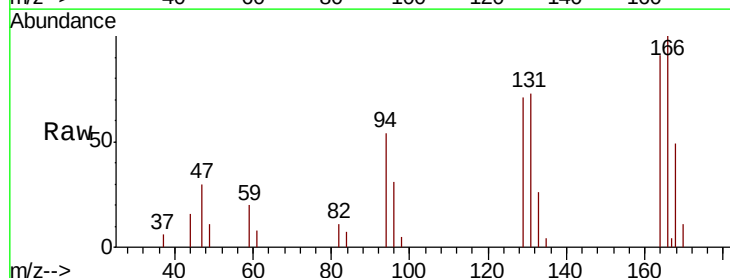
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD005302

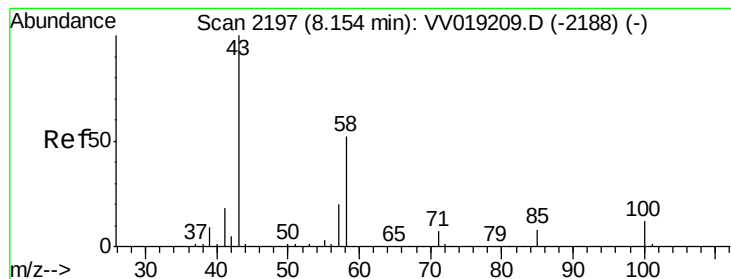
Tot Ion:	97	Resp:	6643
Ion	Ratio	Lower	Upper
97	100		
99	61.6	45.1	83.9
83	79.9	57.6	107.0
85	51.7	37.8	70.2



#46
 Tetrachloroethene
 Concen: 4.490 ug/L
 RT: 8.00 min Scan# 2148
 Delta R.T. 0.00 min
 Lab File: VV019206.D
 Acq: 02 Nov 2020 17:47

Tgt Ion:	164	Resp:	5693
Ion	Ratio	Lower	Upper
164	100		
129	78.2	62.6	116.3
131	80.7	59.0	109.6
166	110.5	88.0	163.4





#48

2-Hexanone

Concen: 7.714 ug/L

RT: 8.16 min Scan# 2200

Delta R.T. 0.01 min

Lab File: VV019206.D

Acq: 02 Nov 2020 17:47

Instrument :

MSVOA_V

ClientSampleId :

VSTD005302

Tot Ion: 43 Resp: 10902

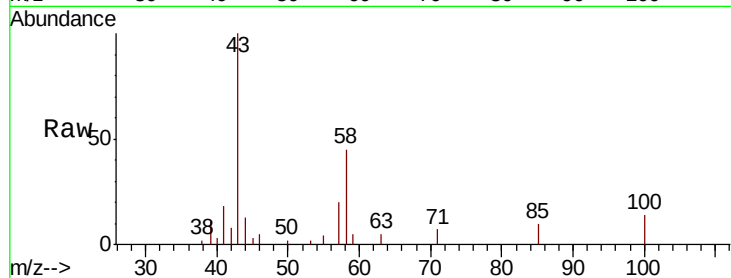
Ion Ratio Lower Upper

43 100

58 53.7 42.6 63.8

57 20.5 15.8 23.8

100 12.6 10.4 15.6

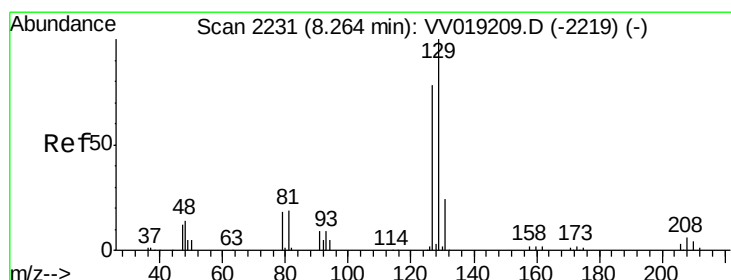
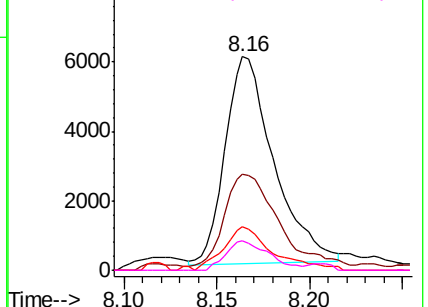
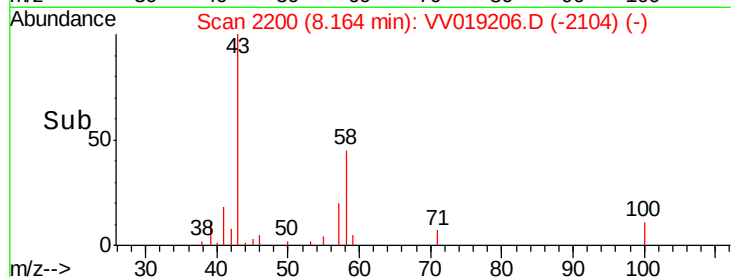


Abundance Ion 43.00 (42.70 to 43.70): VV0

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: 3.945 ug/L

RT: 8.27 min Scan# 2233

Delta R.T. 0.01 min

Lab File: VV019206.D

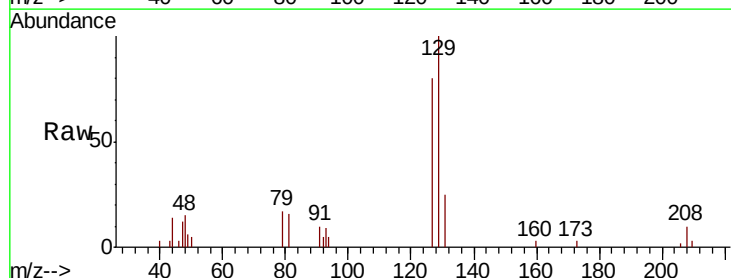
Acq: 02 Nov 2020 17:47

Tgt Ion: 129 Resp: 7189

Ion Ratio Lower Upper

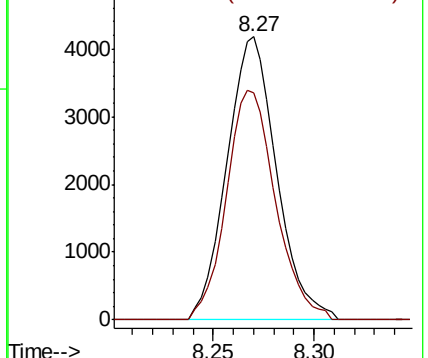
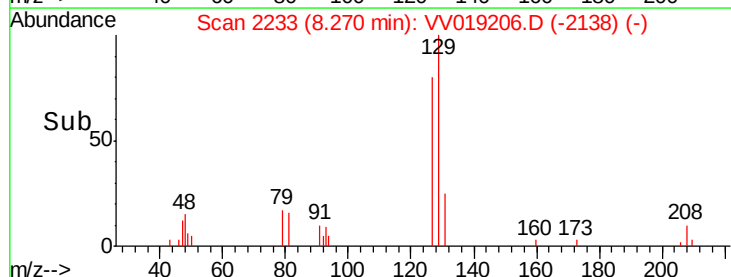
129 100

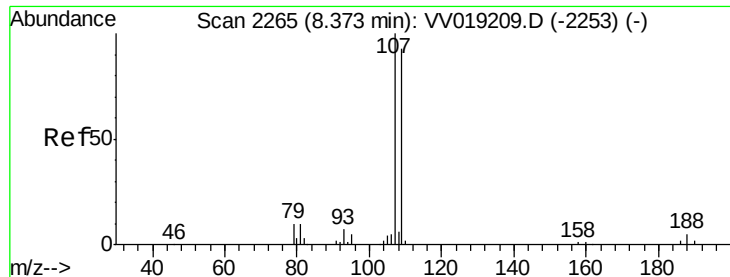
127 80.1 54.4 101.0



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

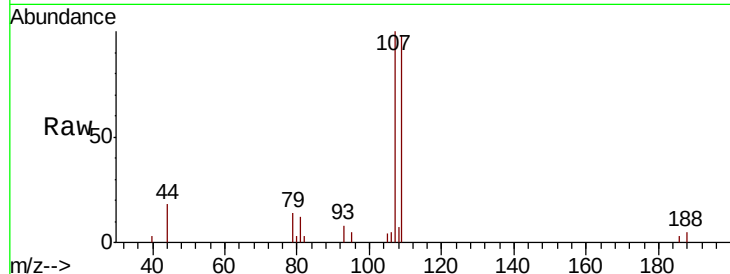




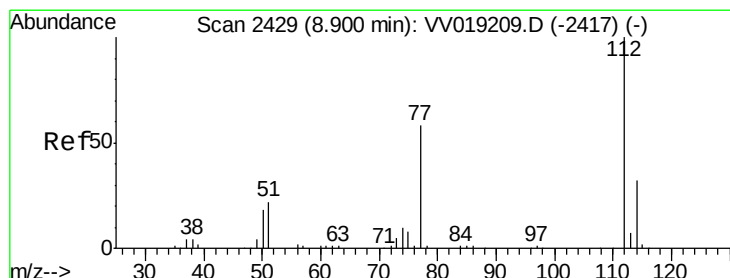
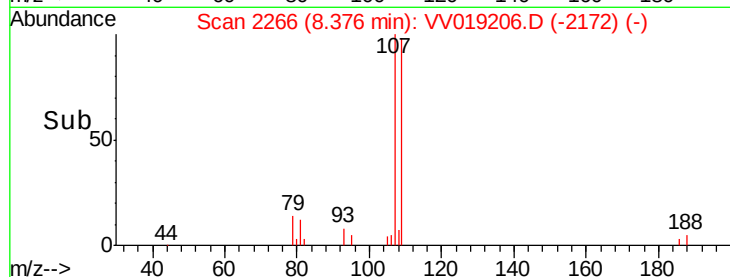
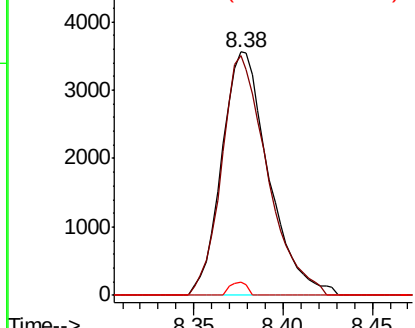
#50
 1,2-Dibromoethane
 Concen: 3.952 ug/L
 RT: 8.38 min Scan# 2266
 Delta R.T. 0.00 min
 Lab File: VV019206.D
 Acq: 02 Nov 2020 17:47

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD005302

Tot Ion:107 Resp: 6514
 Ion Ratio Lower Upper
 107 100
 109 98.2 64.8 120.4
 188 5.4 3.8 5.8

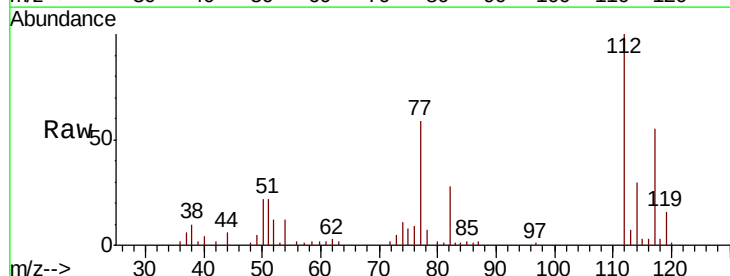


Abundance Ion 107.00 (106.70 to 107.70): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 188.00 (187.70 to 188.70): V

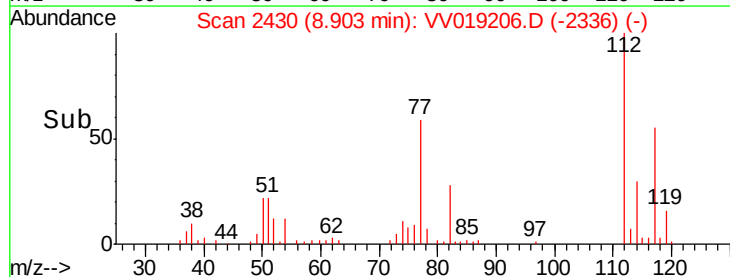
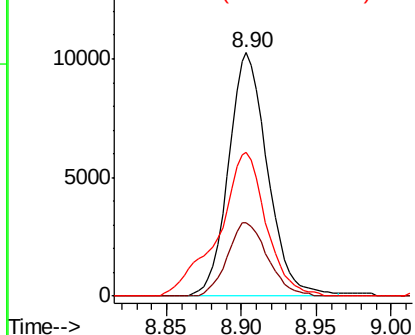


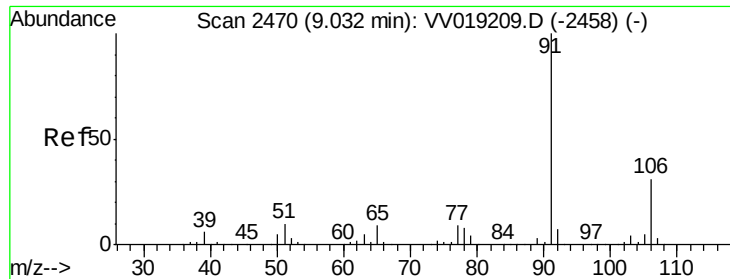
#51
 Chlorobenzene
 Concen: 4.369 ug/L
 RT: 8.90 min Scan# 2430
 Delta R.T. 0.00 min
 Lab File: VV019206.D
 Acq: 02 Nov 2020 17:47

Tgt Ion:112 Resp: 18629
 Ion Ratio Lower Upper
 112 100
 114 30.2 22.7 42.1
 77 58.8 47.3 70.9



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: 3.839 ug/L

RT: 9.04 min Scan# 2471

Delta R.T. 0.00 min

Lab File: VV019206.D

Acq: 02 Nov 2020 17:47

Instrument :

MSVOA_V

ClientSampleId :

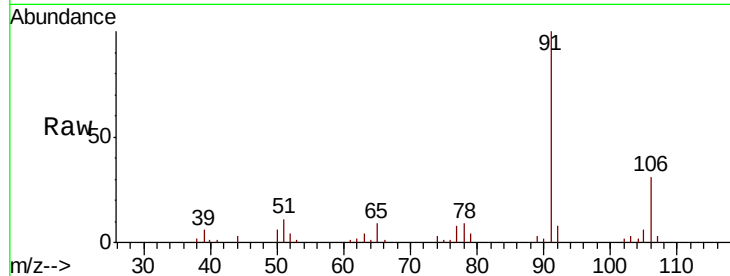
VSTD005302

Tot Ion: 91 Resp: 27828

Ion Ratio Lower Upper

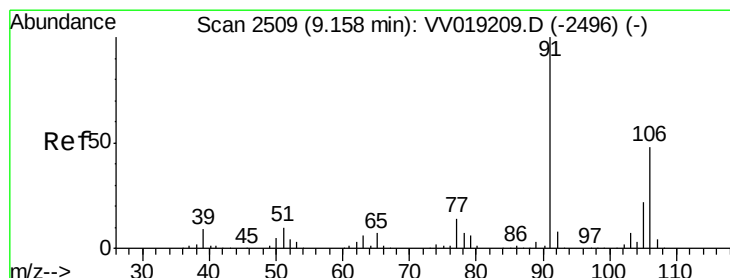
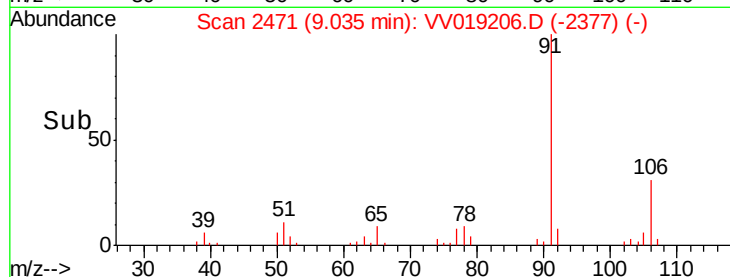
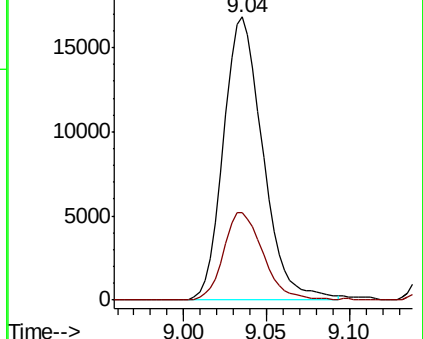
91 100

106 30.9 21.6 40.0



Abundance Ion 91.00 (90.70 to 91.70): VV019209.D (-2458) (-)

Ion 106.00 (105.70 to 106.70): VV019209.D (-2458) (-)



#53

m,p-Xylene

Concen: 3.736 ug/L

RT: 9.16 min Scan# 2510

Delta R.T. 0.00 min

Lab File: VV019206.D

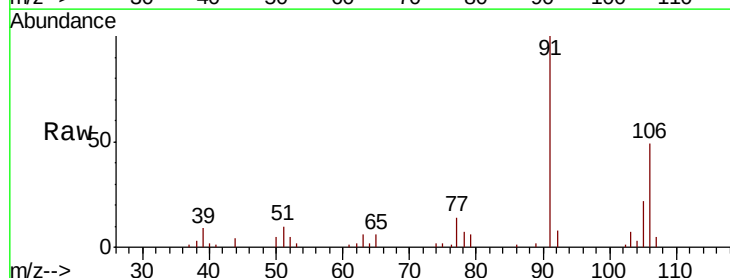
Acq: 02 Nov 2020 17:47

Tgt Ion: 106 Resp: 10459

Ion Ratio Lower Upper

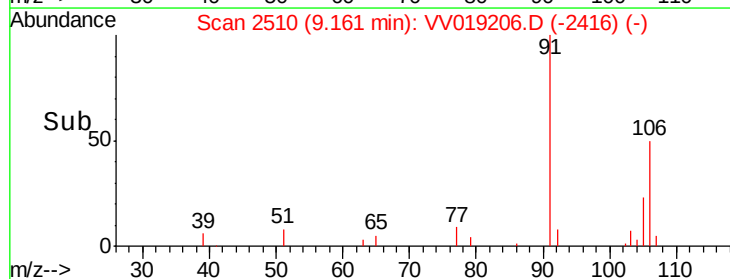
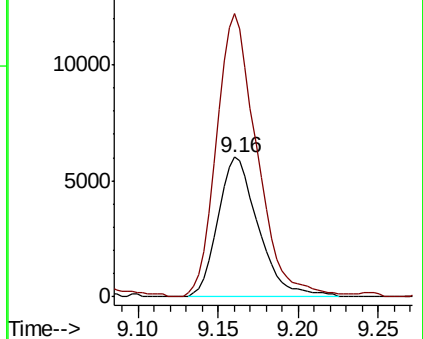
106 100

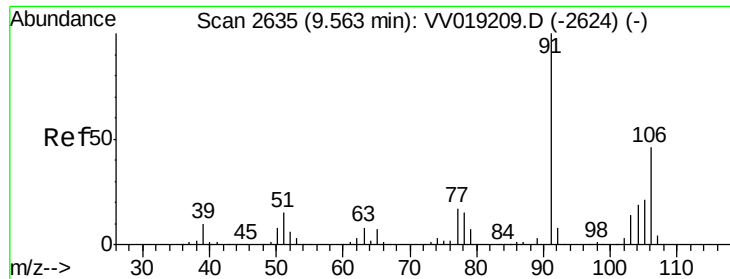
91 202.4 147.2 273.4



Abundance Ion 106.00 (105.70 to 106.70): VV019209.D (-2496) (-)

Ion 91.00 (90.70 to 91.70): VV019209.D (-2496) (-)

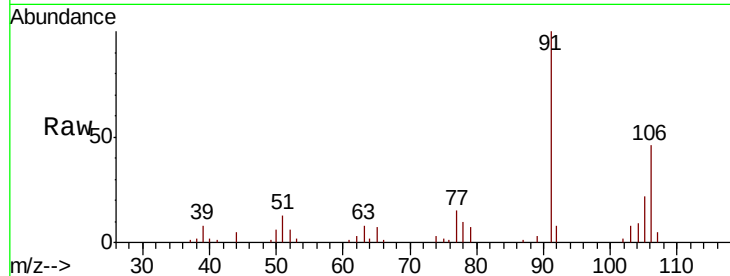




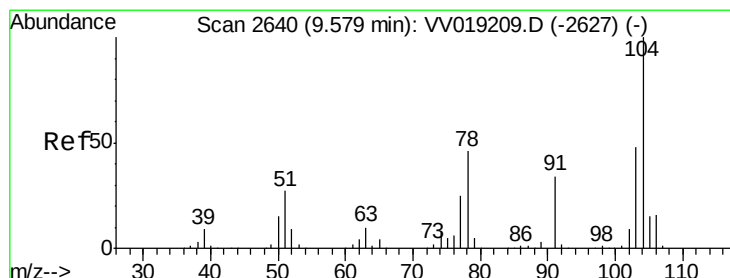
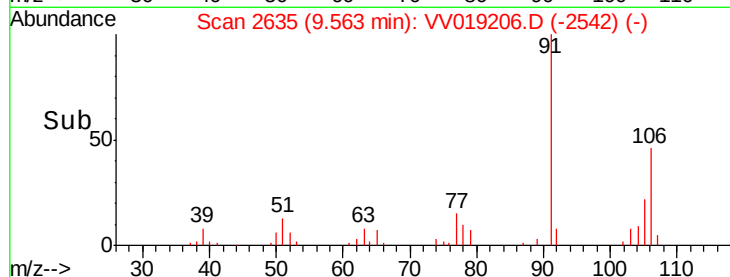
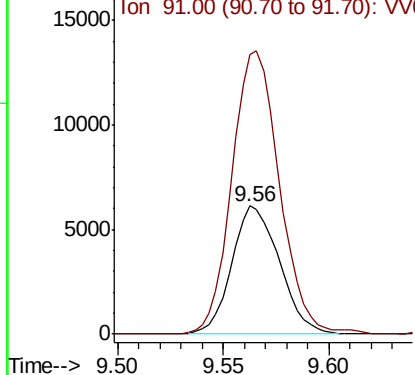
#54
o-Xylene
Concen: 3.563 ug/L
RT: 9.56 min Scan# 2635
Delta R.T. -0.00 min
Lab File: VV019206.D
Acq: 02 Nov 2020 17:47

Instrument :
MSVOA_V
ClientSampleId :
VSTD005302

Tot Ion:106 Resp: 9611
Ion Ratio Lower Upper
106 100
91 217.9 151.6 281.6

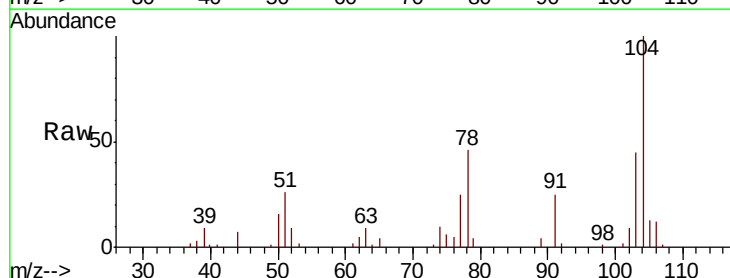


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0

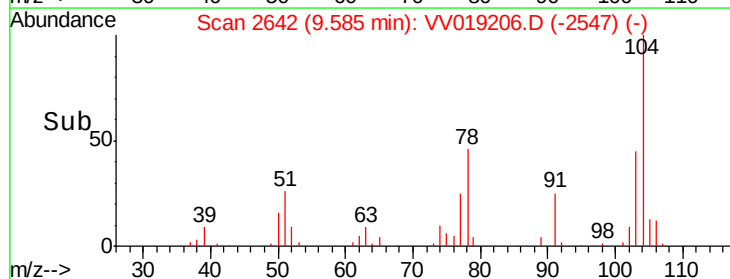
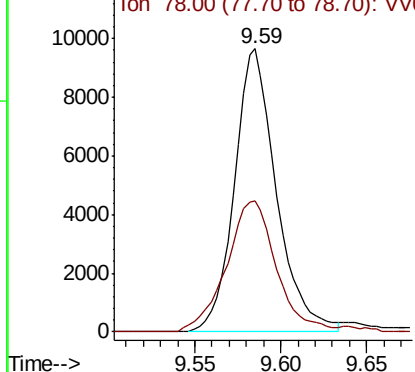


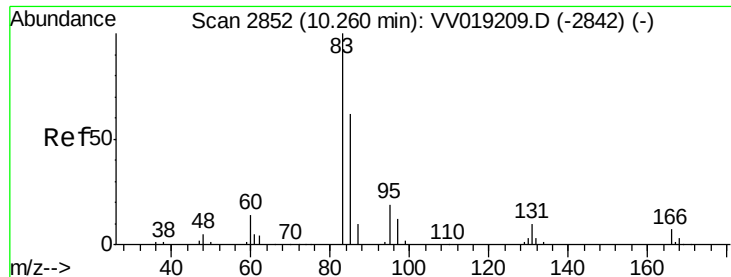
#55
Styrene
Concen: 3.537 ug/L
RT: 9.59 min Scan# 2642
Delta R.T. 0.01 min
Lab File: VV019206.D
Acq: 02 Nov 2020 17:47

Tgt Ion:104 Resp: 16389
Ion Ratio Lower Upper
104 100
78 46.3 32.6 60.5



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VV0

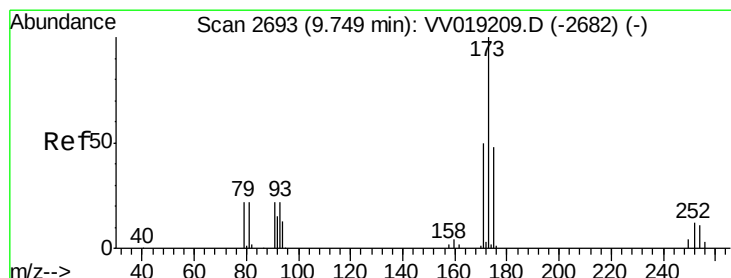
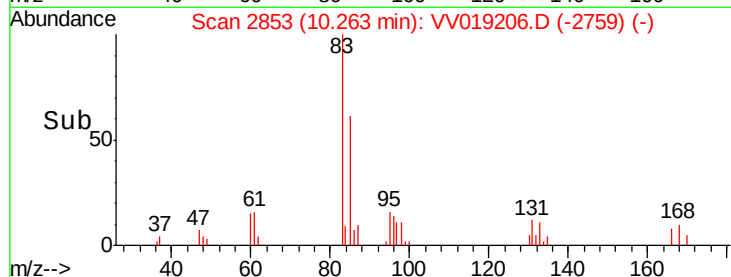
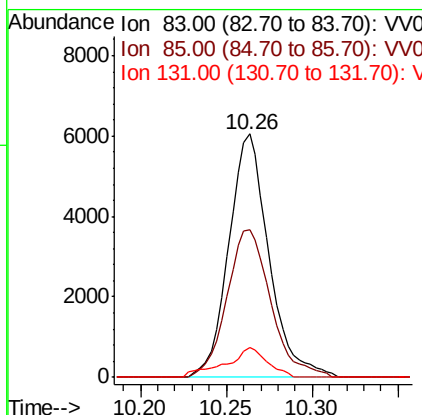
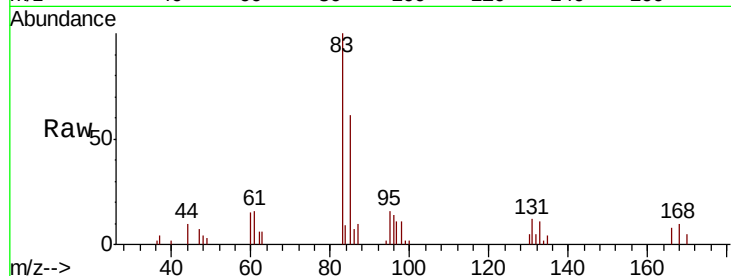




#57
 1,1,2,2-Tetrachloroethane
 Concen: 4.133 ug/L
 RT: 10.26 min Scan# 2853
 Delta R.T. 0.00 min
 Lab File: VV019206.D
 Acq: 02 Nov 2020 17:47

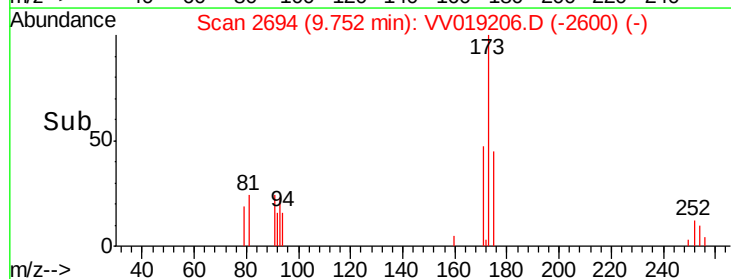
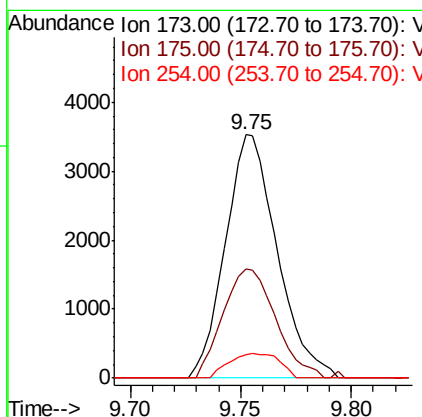
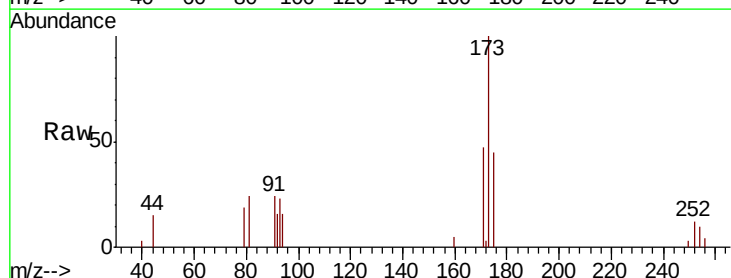
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD005302

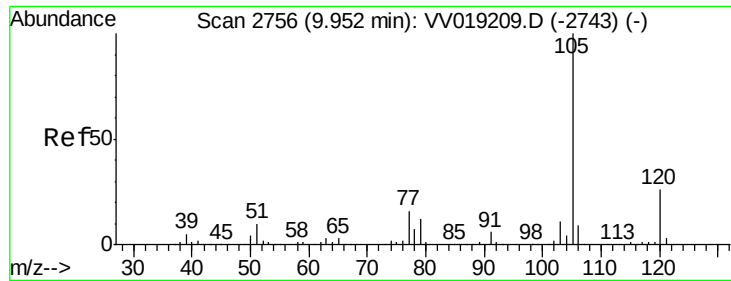
Tot Ion	83	Resp	9822
Ion	Ratio	Lower	Upper
83	100		
85	60.6	45.0	83.6
131	12.1	8.9	13.3



#59
 Bromoform
 Concen: 4.368 ug/L
 RT: 9.75 min Scan# 2694
 Delta R.T. 0.00 min
 Lab File: VV019206.D
 Acq: 02 Nov 2020 17:47

Tgt Ion	173	Resp	5743
Ion	Ratio	Lower	Upper
173	100		
175	45.5	38.4	57.6
254	9.8	9.0	13.6





#60

Isopropylbenzene

Concen: 3.624 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VV019206.D

Acq: 02 Nov 2020 17:47

Instrument :

MSVOA_V

ClientSampleId :

VSTD005302

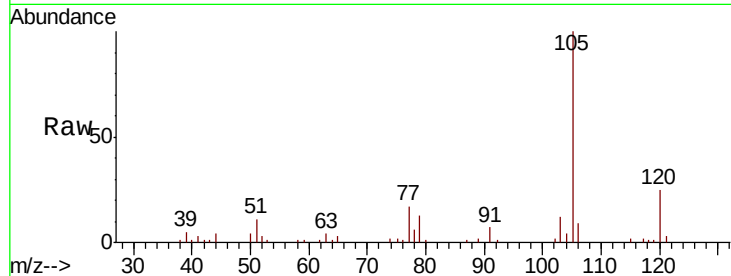
Tot Ion:105 Resp: 26003

Ion Ratio Lower Upper

105 100

120 26.3 21.0 31.4

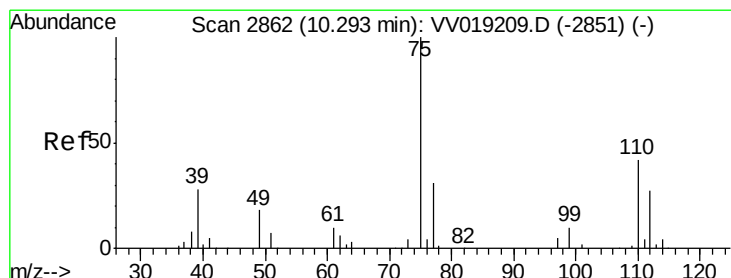
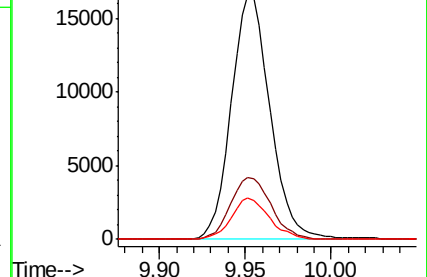
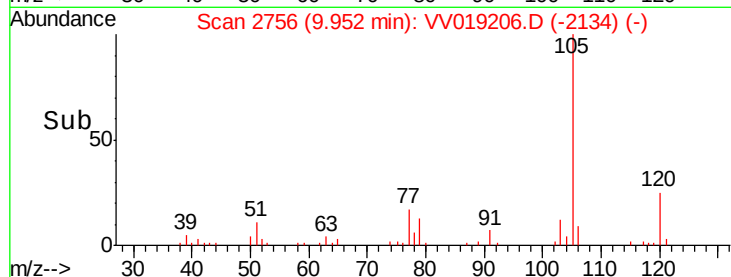
77 16.4 13.0 19.6



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



#61

1,2,3-Trichloropropane

Concen: 4.395 ug/L

RT: 10.30 min Scan# 2863

Delta R.T. 0.00 min

Lab File: VV019206.D

Acq: 02 Nov 2020 17:47

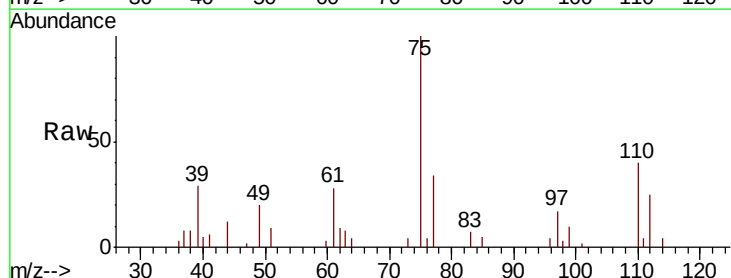
Tgt Ion: 75 Resp: 8398

Ion Ratio Lower Upper

75 100

77 32.9 24.8 37.2

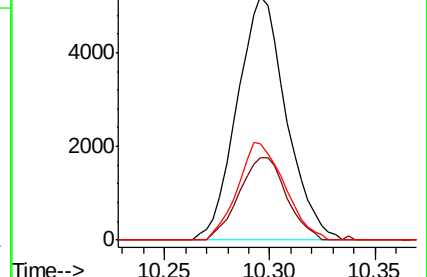
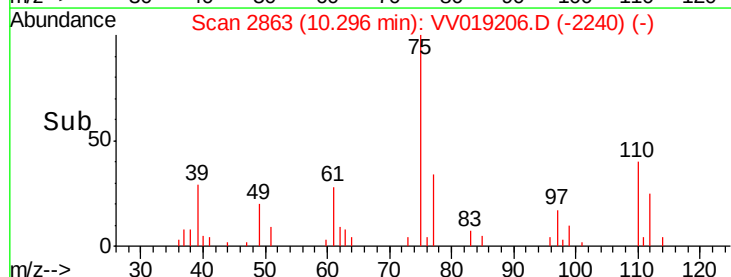
110 38.4 33.4 50.2

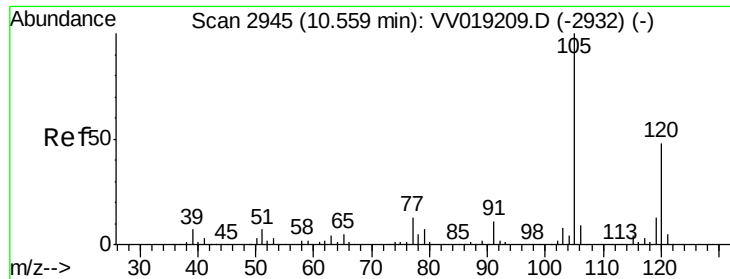


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

Ion 110.00 (109.70 to 110.70): V

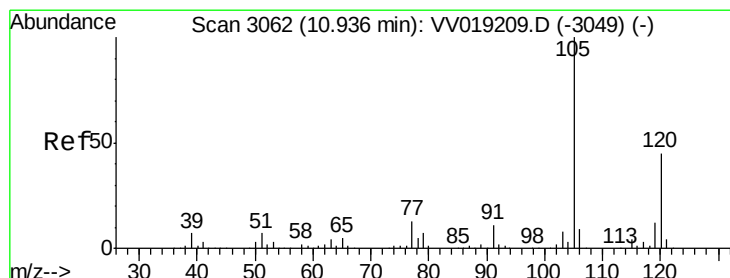
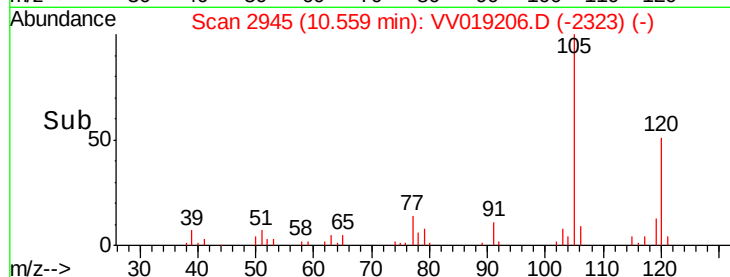
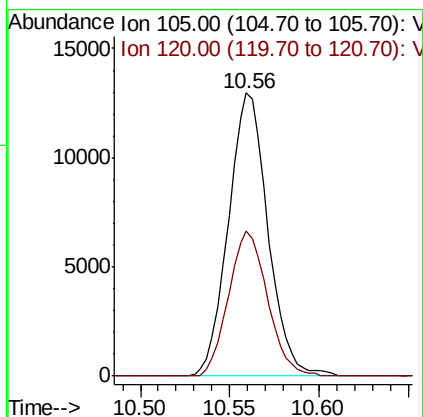
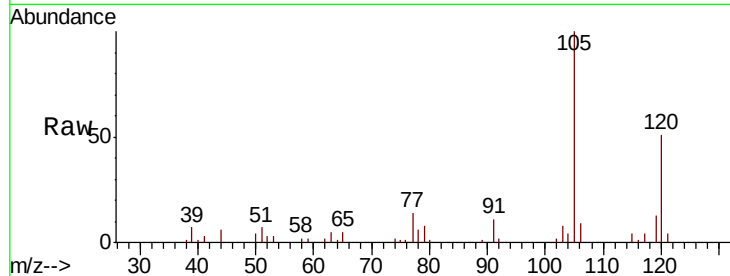




#62
 1,3,5-Trimethylbenzene
 Concen: 3.253 ug/L
 RT: 10.56 min Scan# 2945
 Delta R.T. -0.00 min
 Lab File: VV019206.D
 Acq: 02 Nov 2020 17:47

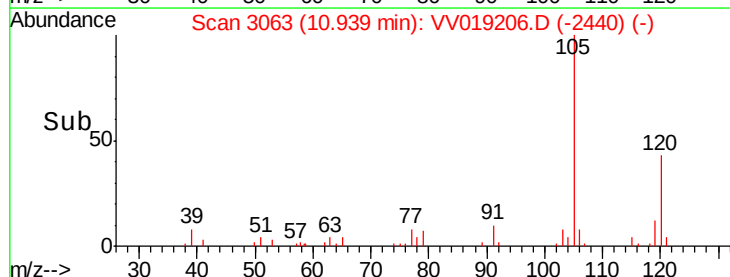
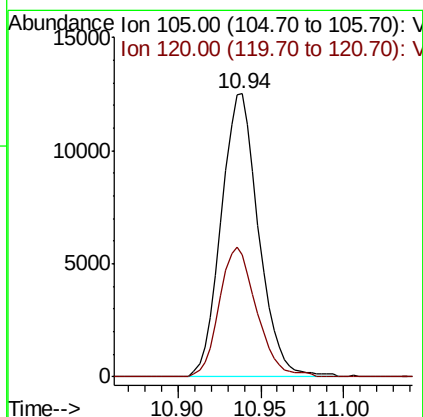
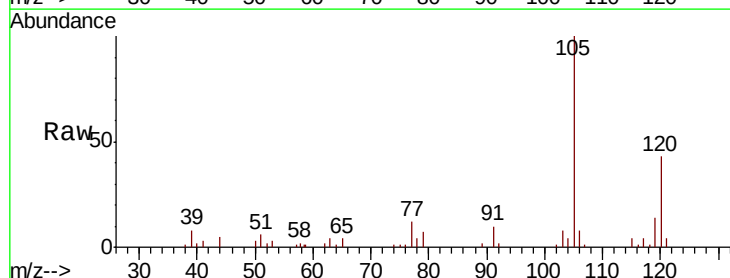
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD005302

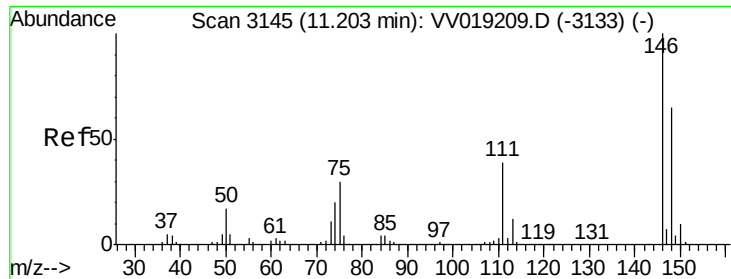
Tot Ion:105 Resp: 19921
 Ion Ratio Lower Upper
 105 100
 120 50.4 38.3 57.5



#63
 1,2,4-Trimethylbenzene
 Concen: 3.296 ug/L
 RT: 10.94 min Scan# 3063
 Delta R.T. 0.00 min
 Lab File: VV019206.D
 Acq: 02 Nov 2020 17:47

Tgt Ion:105 Resp: 19706
 Ion Ratio Lower Upper
 105 100
 120 45.3 35.7 53.5

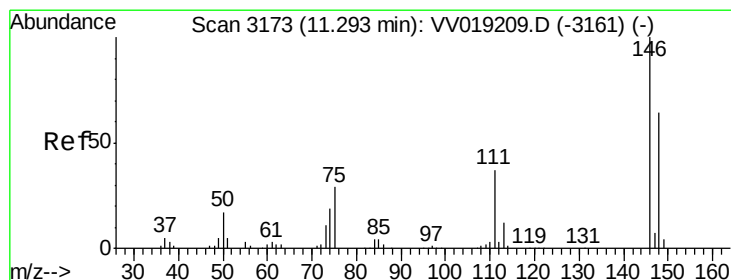
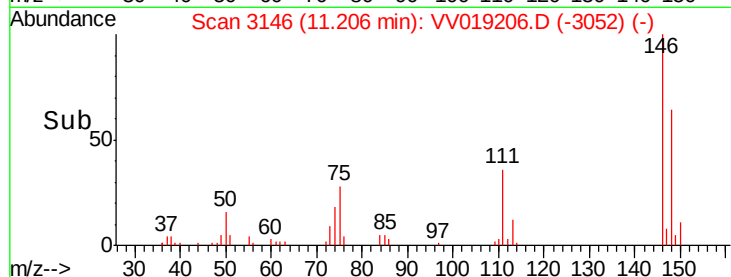
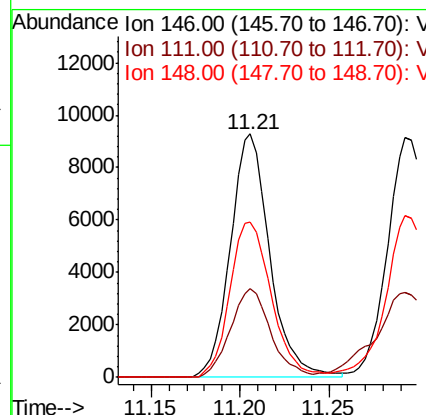
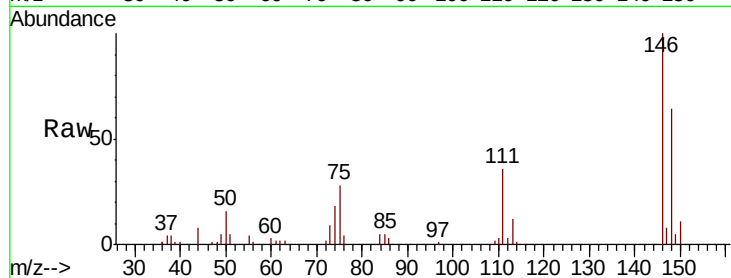




#64
 1,3-Dichlorobenzene
 Concen: 4.091 ug/L
 RT: 11.21 min Scan# 3146
 Delta R.T. 0.00 min
 Lab File: VV019206.D
 Acq: 02 Nov 2020 17:47

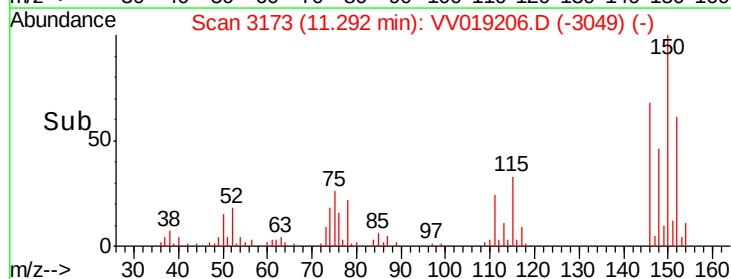
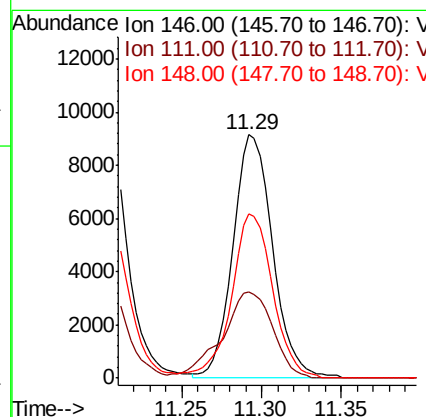
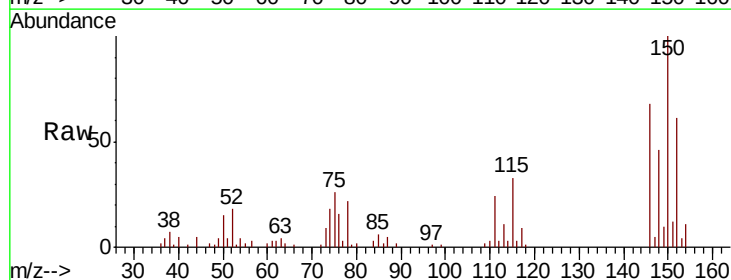
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD005302

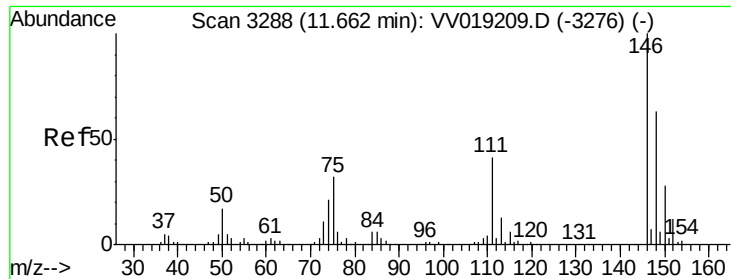
Tot Ion:146 Resp: 14283
 Ion Ratio Lower Upper
 146 100
 111 36.3 27.3 50.7
 148 63.9 45.2 84.0



#65
 1,4-Dichlorobenzene
 Concen: 4.318 ug/L
 RT: 11.29 min Scan# 3173
 Delta R.T. -0.00 min
 Lab File: VV019206.D
 Acq: 02 Nov 2020 17:47

Tgt Ion:146 Resp: 15509
 Ion Ratio Lower Upper
 146 100
 111 35.6 25.9 48.1
 148 67.5 44.9 83.5

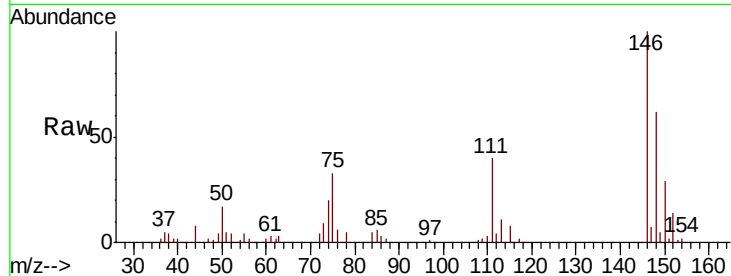




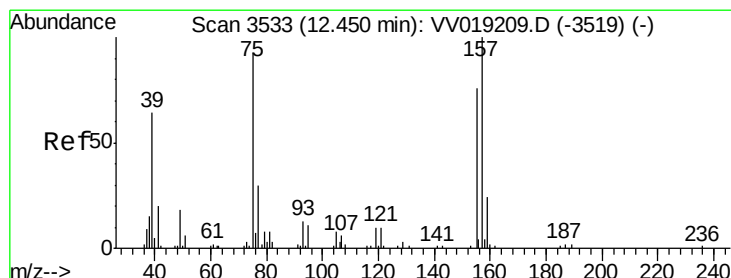
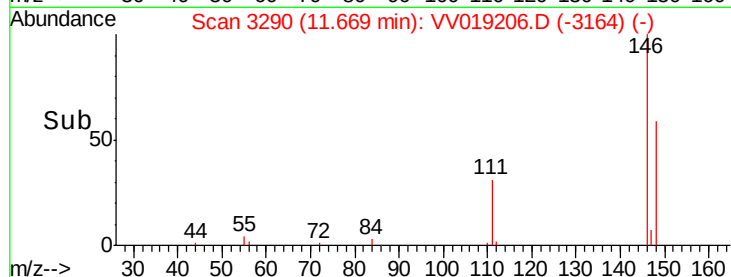
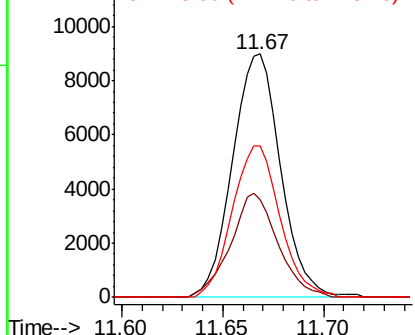
#67
 1,2-Dichlorobenzene
 Concen: 4.338 ug/L
 RT: 11.67 min Scan# 3290
 Delta R.T. 0.01 min
 Lab File: VV019206.D
 Acq: 02 Nov 2020 17:47

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD005302

Tot Ion:146 Resp: 14997
 Ion Ratio Lower Upper
 146 100
 111 40.2 32.6 48.8
 148 62.3 50.1 75.1

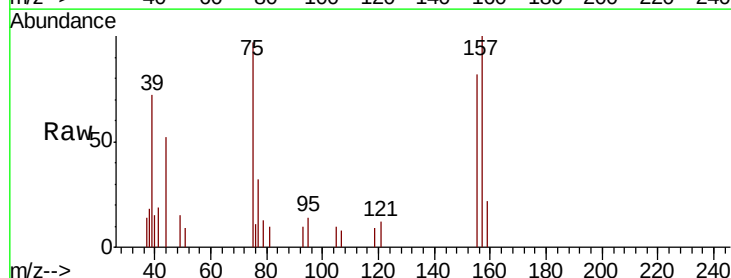


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

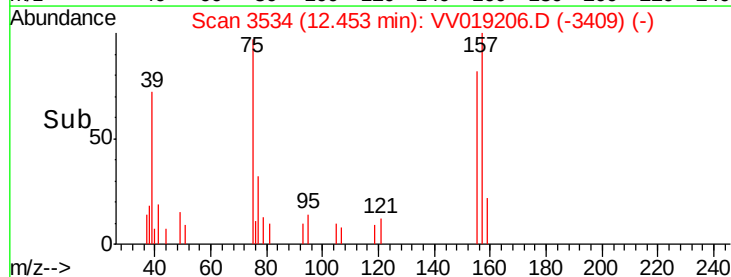
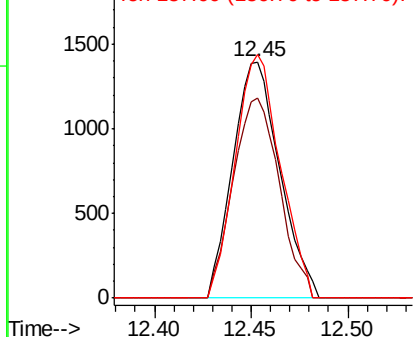


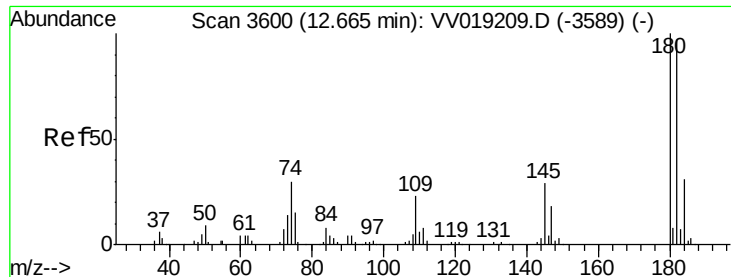
#68
 1,2-Dibromo-3-chloropropane
 Concen: 4.086 ug/L
 RT: 12.45 min Scan# 3534
 Delta R.T. 0.00 min
 Lab File: VV019206.D
 Acq: 02 Nov 2020 17:47

Tgt Ion: 75 Resp: 2354
 Ion Ratio Lower Upper
 75 100
 155 84.6 65.8 98.6
 157 103.2 86.3 129.5



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

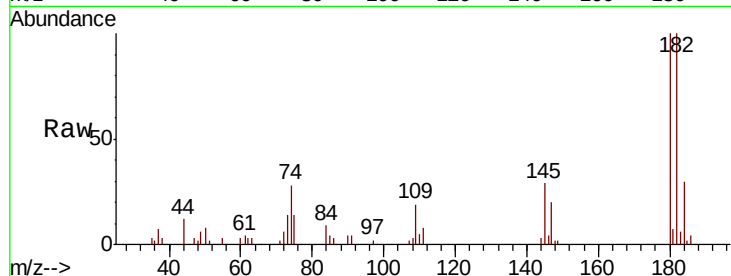




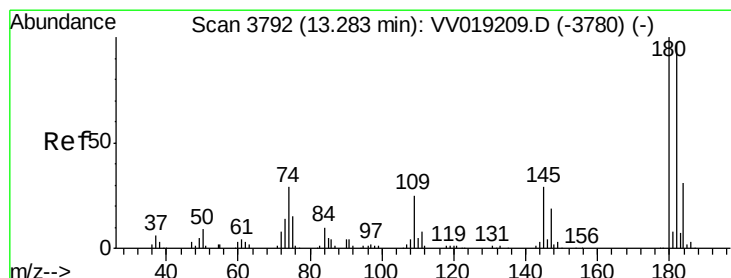
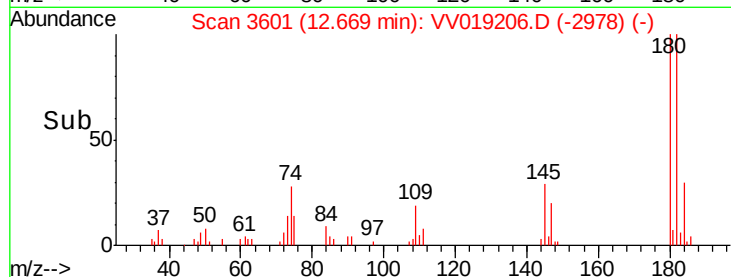
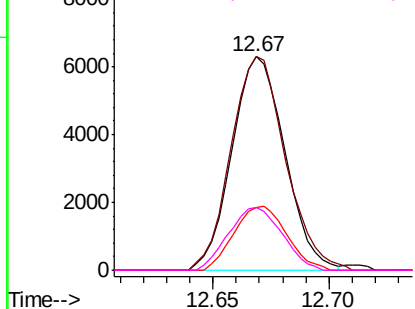
#69
 1,3,5-Trichlorobenzene
 Concen: 3.973 ug/L
 RT: 12.67 min Scan# 3601
 Delta R.T. 0.00 min
 Lab File: VV019206.D
 Acq: 02 Nov 2020 17:47

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD005302

Tot Ion:180 Resp: 9997
 Ion Ratio Lower Upper
 180 100
 182 102.8 77.7 116.5
 184 29.7 24.9 37.3
 145 29.6 23.4 35.0

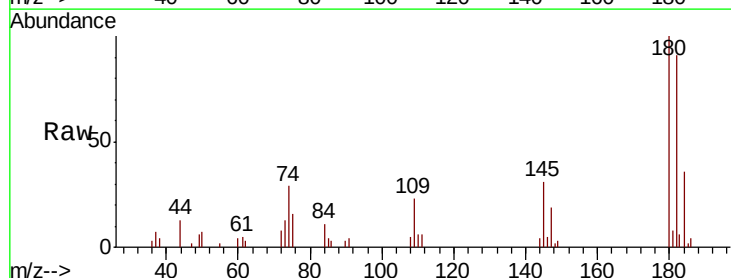


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

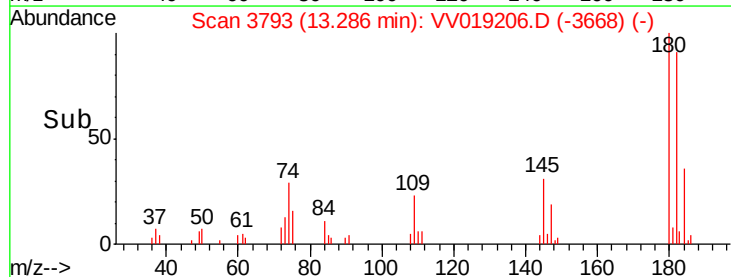
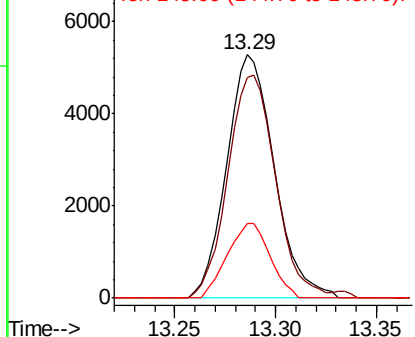


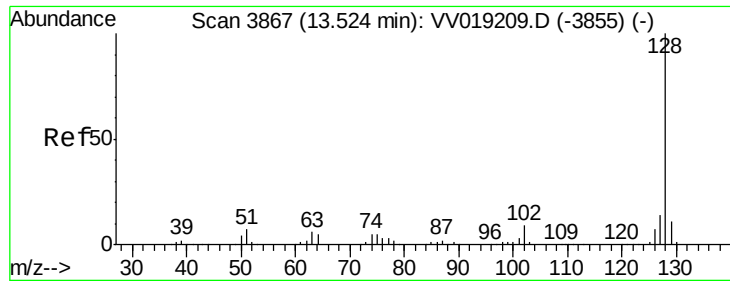
#70
 1,2,4-trichlorobenzene
 Concen: 3.817 ug/L
 RT: 13.29 min Scan# 3793
 Delta R.T. 0.00 min
 Lab File: VV019206.D
 Acq: 02 Nov 2020 17:47

Tgt Ion:180 Resp: 8737
 Ion Ratio Lower Upper
 180 100
 182 91.8 76.6 114.8
 145 27.4 23.2 34.8



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

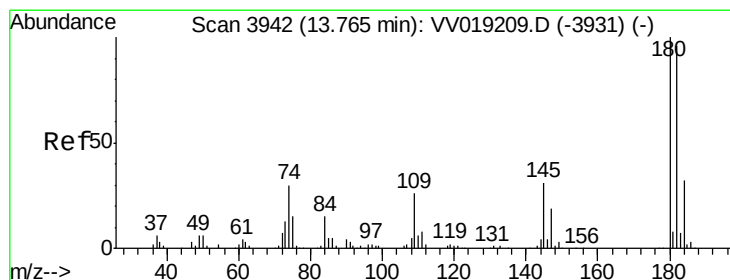
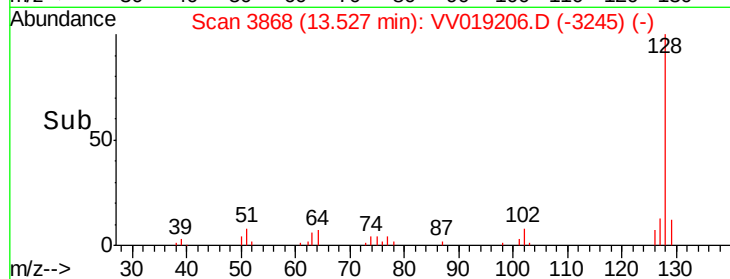
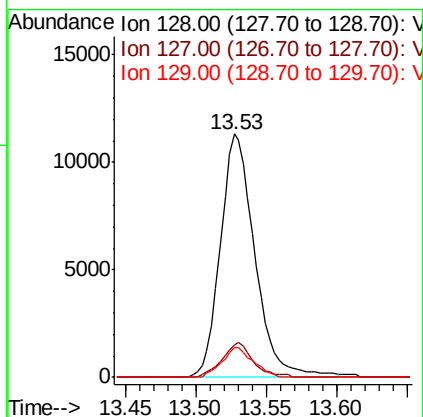
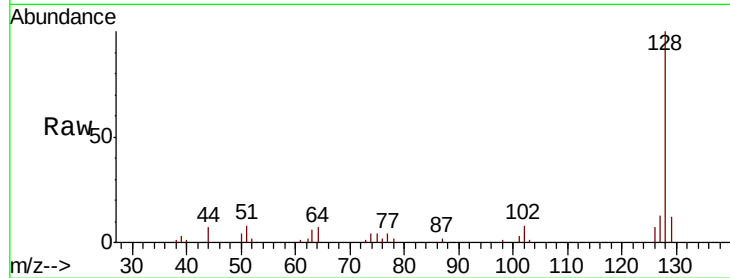




#71
Naphthalene
Concen: 2.789 ug/L
RT: 13.53 min Scan# 3868
Delta R.T. 0.00 min
Lab File: VV019206.D
Acq: 02 Nov 2020 17:47

Instrument :
MSVOA_V
ClientSampled :
VSTD005302

Tot Ion:128 Resp: 19275
Ion Ratio Lower Upper
128 100
127 12.6 10.7 16.1
129 11.0 8.6 13.0



#72
1,2,3-Trichlorobenzene
Concen: 3.796 ug/L
RT: 13.77 min Scan# 3943
Delta R.T. 0.00 min
Lab File: VV019206.D
Acq: 02 Nov 2020 17:47

Tgt Ion:180 Resp: 8538
Ion Ratio Lower Upper
180 100
182 93.2 77.4 116.0
145 28.0 24.7 37.1

