

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU040320\
 Data File : VU037566.D
 Acq On : 03 Apr 2020 13:39
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFB35

Quant Time: Apr 04 05:16:36 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040320WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Apr 04 03:34:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	183900	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	170203	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	81918	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	70619	47.28	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	94.56%
7) Chloroethane-d5	1.93	69	55856	46.55	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	93.10%
11) 1,1-Dichloroethene-d2	2.59	63	123519	49.20	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	98.40%
21) 2-Butanone-d5	4.66	46	109888	97.89	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	97.89%
24) Chloroform-d	5.10	84	121005	48.09	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.18%
26) 1,2-Dichloroethane-d4	5.74	65	77567	46.43	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.86%
32) Benzene-d6	5.76	84	240264	48.72	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.44%
36) 1,2-Dichloropropane-d6	6.72	67	79662	47.99	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	95.98%
41) Toluene-d8	7.92	98	224651	48.88	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.76%
43) trans-1,3-Dichloropropene-	8.20	79	41778	46.35	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.70%
47) 2-Hexanone-d5	8.65	63	83899	95.39	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	95.39%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	116370	49.03	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	98.06%
64) 1,2-Dichlorobenzene-d4	12.20	152	80034	47.88	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.76%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.40	85	61155	51.439	ug/L 100
3) Chloromethane	1.54	50	62380	49.464	ug/L 99
5) Vinyl chloride	1.62	62	63854	50.990	ug/L 99
6) Bromomethane	1.87	94	32711	52.963	ug/L 99
8) Chloroethane	1.95	64	37270	50.462	ug/L 97
9) Trichlorofluoromethane	2.16	101	90339	50.847	ug/L 97
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	52492	51.799	ug/L 99
12) 1,1-Dichloroethene	2.60	96	51365	52.215	ug/L 89
13) Acetone	2.66	43	60774	93.661	ug/L 100
14) Carbon disulfide	2.82	76	146055	51.400	ug/L 100
15) Methyl Acetate	2.98	43	75179	51.129	ug/L 100
16) Methylene chloride	3.08	84	60656	50.834	ug/L 98
17) trans-1,2-Dichloroethene	3.39	96	54409	51.364	ug/L 98
18) Methyl tert-butyl Ether	3.40	73	191508	51.575	ug/L 98
19) 1,1-Dichloroethane	3.91	63	106271	51.205	ug/L 98
20) cis-1,2-Dichloroethene	4.71	96	63091	51.721	ug/L 98
22) 2-Butanone	4.74	43	108243	102.204	ug/L 98

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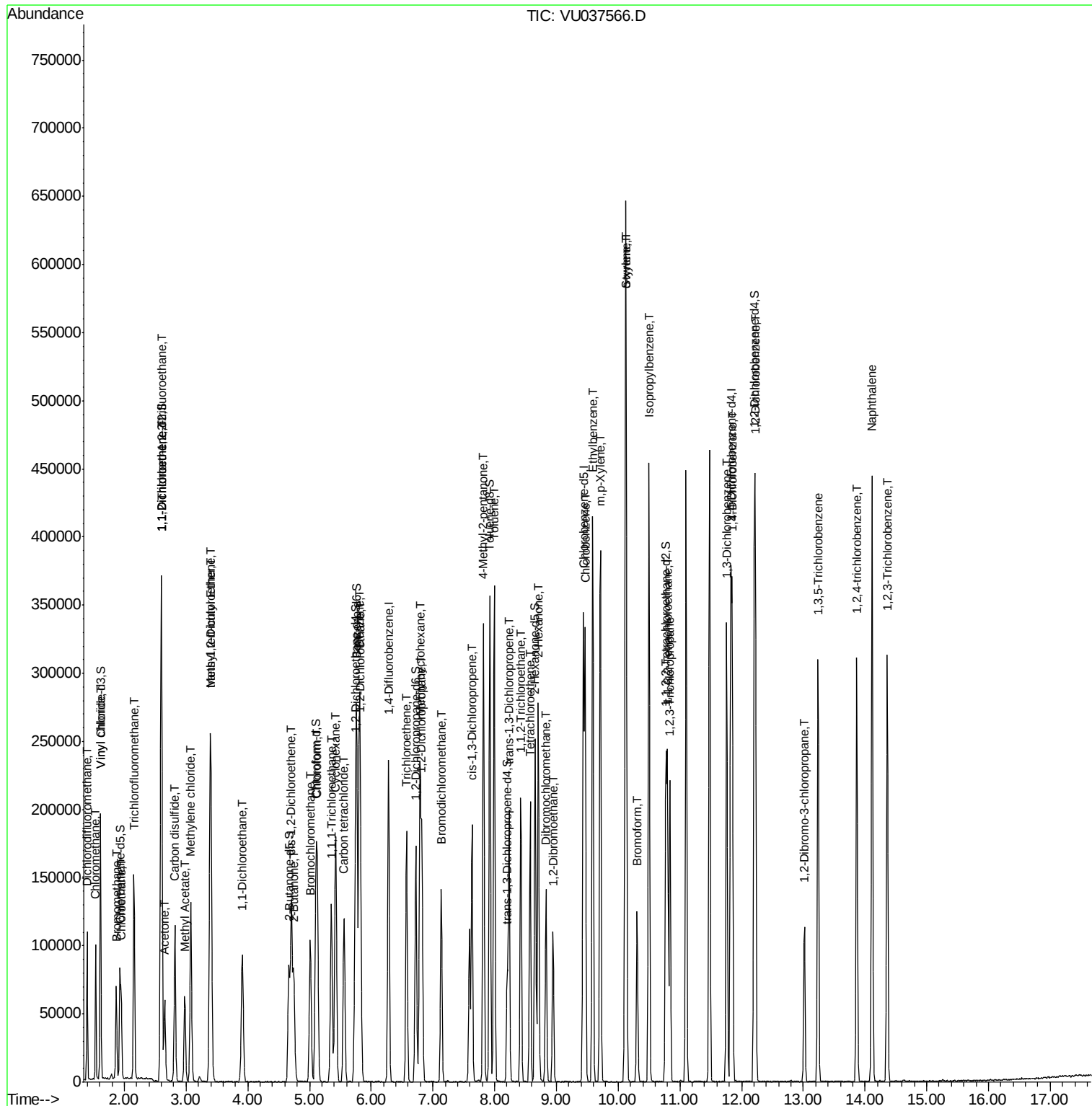
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

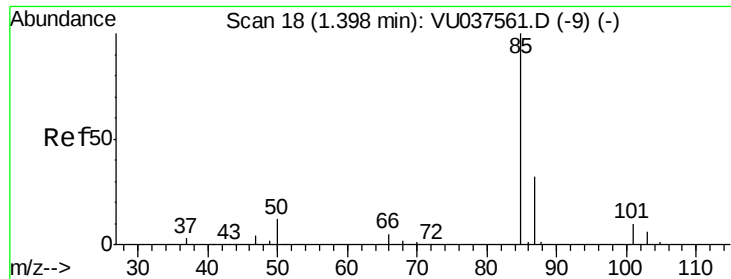
23) Bromochloromethane	5.01	128	30222	51.618	uq/L	93
25) Chloroform	5.13	83	107841	49.838	uq/L	93
27) 1,2-Dichloroethane	5.83	62	85760	51.354	uq/L	99
29) Cyclohexane	5.42	56	94513	52.986	uq/L	99
30) 1,1,1-Trichloroethane	5.35	97	96279	53.364	uq/L	99
31) Carbon tetrachloride	5.56	117	79095	53.266	uq/L	97
33) Benzene	5.81	78	234027	52.476	uq/L	100
34) Trichloroethene	6.57	95	60035	51.483	uq/L	99
35) Methylcyclohexane	6.79	83	92054	51.091	uq/L	98
37) 1,2-Dichloropropane	6.82	63	66119	52.035	uq/L	99
38) Bromodichloromethane	7.13	83	87768	53.107	uq/L	97
39) cis-1,3-Dichloropropene	7.63	75	106017	53.418	uq/L	100
40) 4-Methyl-2-pentanone	7.82	43	217756	105.607	uq/L	100
42) Toluene	7.99	91	250655	51.938	uq/L	99
44) trans-1,3-Dichloropropene	8.23	75	104585	53.511	uq/L	95
45) 1,1,2-Trichloroethane	8.42	97	62459	53.838	uq/L	97
46) Tetrachloroethene	8.57	164	40683	51.960	uq/L	96
48) 2-Hexanone	8.71	43	170240	106.168	uq/L	100
49) Dibromochloromethane	8.83	129	69078	53.384	uq/L	97
50) 1,2-Dibromoethane	8.94	107	68004	53.300	uq/L	95
51) Chlorobenzene	9.47	112	157325	52.557	uq/L	98
52) Ethylbenzene	9.59	91	285425	52.298	uq/L	98
53) m,p-Xylene	9.71	106	107022	52.572	uq/L	94
54) o-xylene	10.12	106	104914	53.471	uq/L	96
55) Styrene	10.13	104	184205	53.021	uq/L	100
56) Isopropylbenzene	10.50	105	282699	53.141	uq/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.80	83	112296	53.693	uq/L	97
59) 1,2,3-Trichloropropane	10.84	75	87067	53.301	uq/L	98
61) Bromoform	10.31	173	51905	55.427	uq/L	98
62) 1,3-Dichlorobenzene	11.76	146	122131	51.634	uq/L	99
63) 1,4-Dichlorobenzene	11.85	146	121546	50.914	uq/L	98
65) 1,2-Dichlorobenzene	12.23	146	121819	52.014	uq/L	99
66) 1,2-Dibromo-3-chloropropan	13.01	75	28650	50.999	uq/L	92
67) 1,3,5-Trichlorobenzene	13.24	180	84248	51.315	uq/L	98
68) 1,2,4-trichlorobenzene	13.87	180	83680	53.465	uq/L	97
69) Naphthalene	14.11	128	331971	50.065	uq/L	99
70) 1,2,3-Trichlorobenzene	14.36	180	82976	52.479	uq/L	98

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

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#2

Dichlorodifluoromethane

Concen: 51.439 ug/L

RT: 1.40 min Scan# 18

Delta R.T. 0.00 min

Lab File: VU037566.D

Acq: 03 Apr 2020 13:39

Instrument :

MSVOA_U

ClientSampleId :

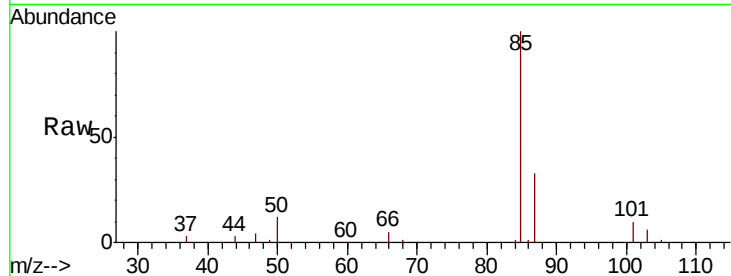
BFB35

Tot Ion: 85 Resp: 61155

Ion Ratio Lower Upper

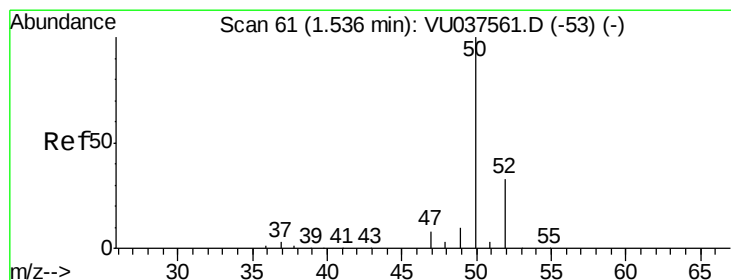
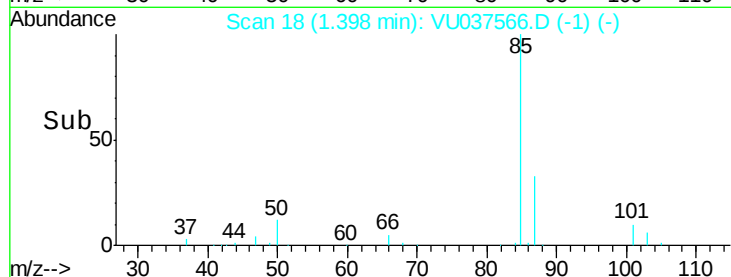
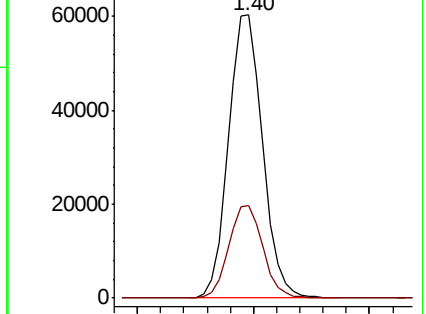
85 100

87 32.8 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VU037566.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU037566.D (-1) (-)



#3

Chloromethane

Concen: 49.464 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU037566.D

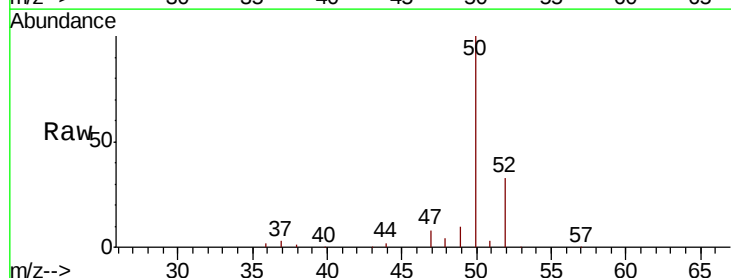
Acq: 03 Apr 2020 13:39

Tgt Ion: 50 Resp: 62380

Ion Ratio Lower Upper

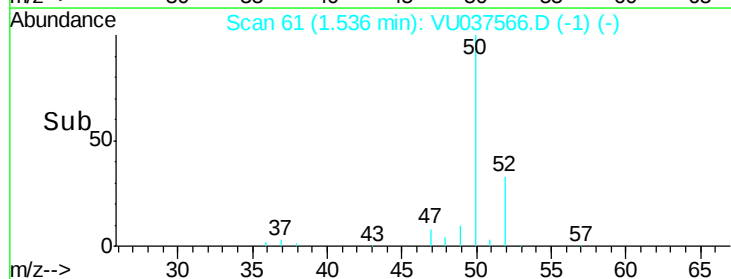
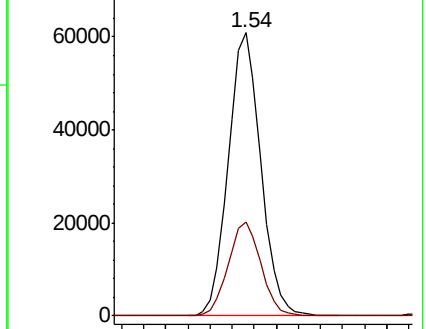
50 100

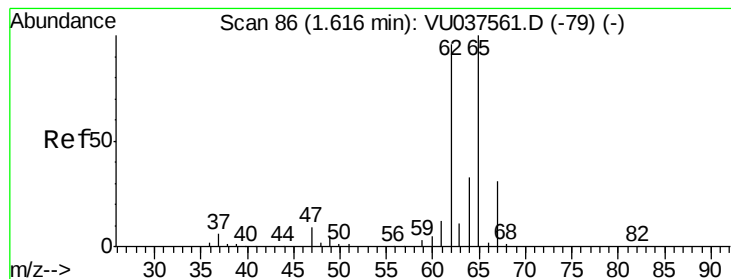
52 33.0 23.3 43.3



Abundance Ion 50.00 (49.70 to 50.70): VU037566.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU037566.D (-1) (-)





#5

Vinyl chloride

Concen: 50.990 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU037566.D

Acq: 03 Apr 2020 13:39

Instrument :

MSVOA_U

ClientSampleId :

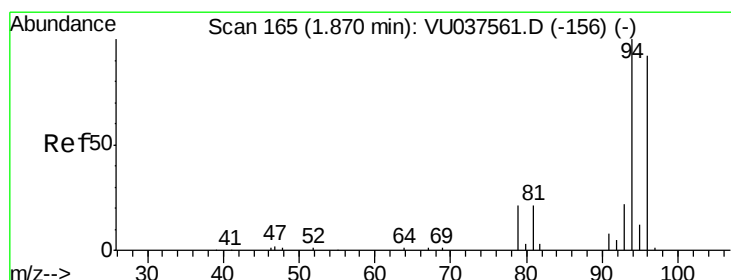
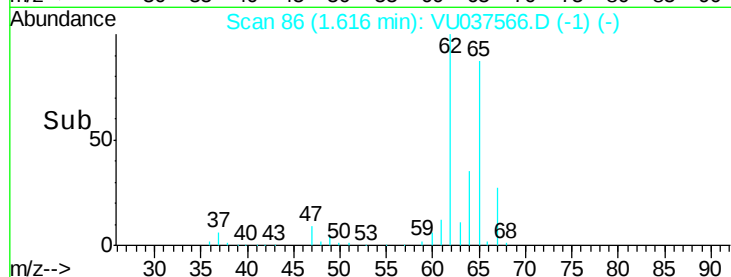
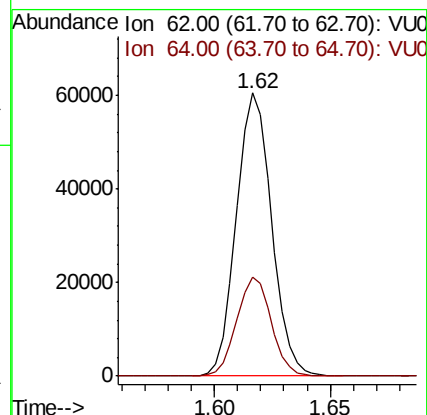
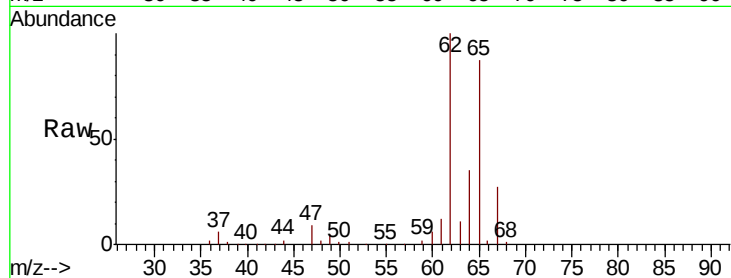
BFB35

Tot Ion: 62 Resp: 63854

Ion Ratio Lower Upper

62 100

64 34.8 24.0 44.6



#6

Bromomethane

Concen: 52.963 ug/L

RT: 1.87 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU037566.D

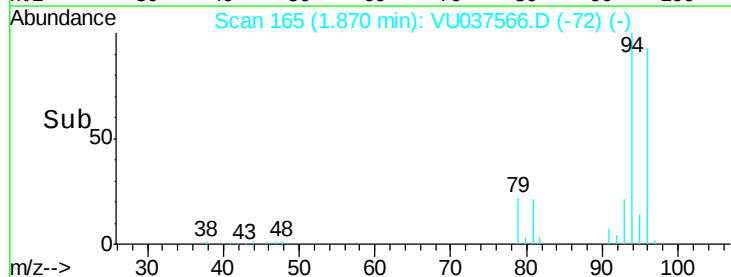
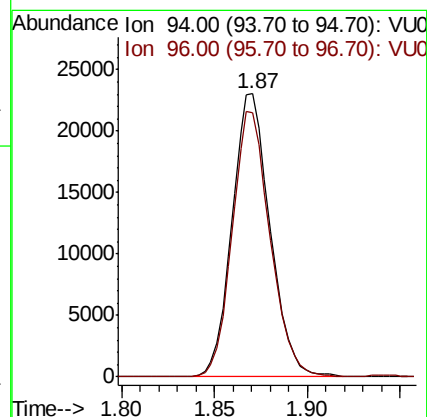
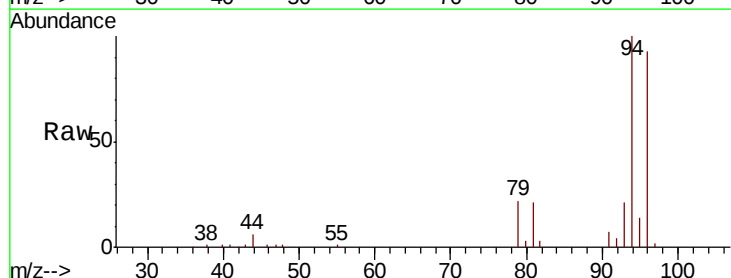
Acq: 03 Apr 2020 13:39

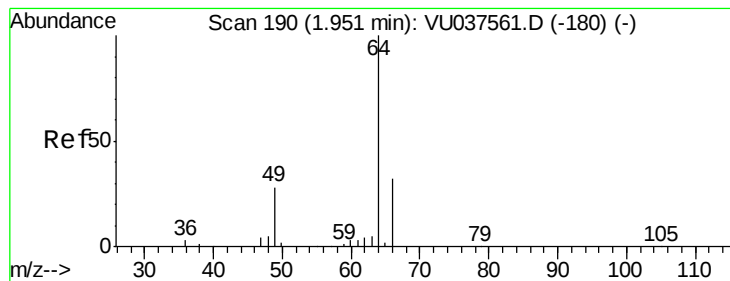
Tgt Ion: 94 Resp: 32711

Ion Ratio Lower Upper

94 100

96 93.4 64.4 119.6





#8

Chloroethane

Concen: 50.462 ug/L

RT: 1.95 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU037566.D

Acq: 03 Apr 2020 13:39

Instrument :

MSVOA_U

ClientSampleId :

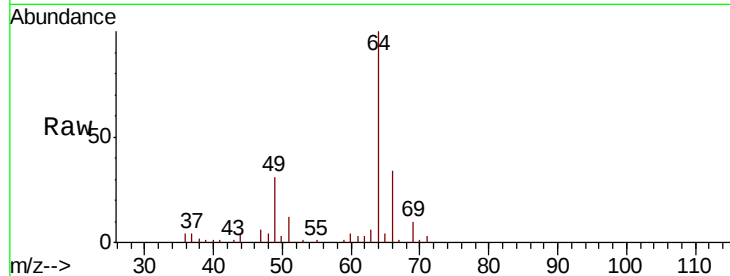
BFB35

Tot Ion: 64 Resp: 37270

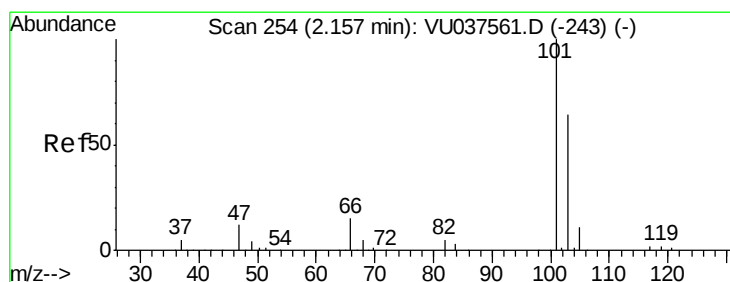
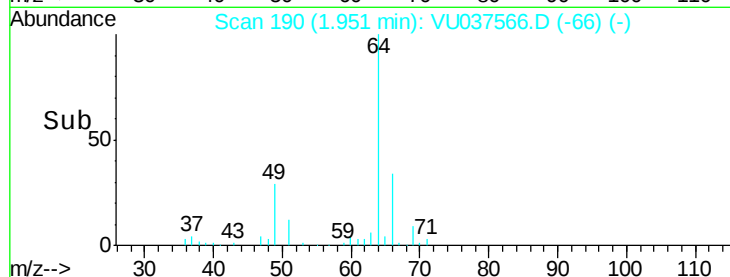
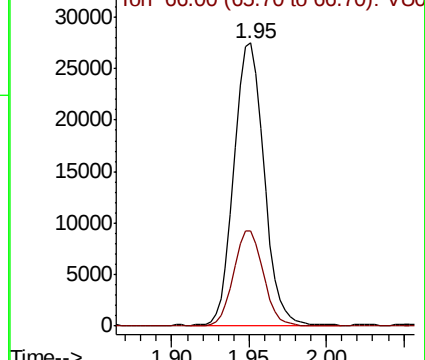
Ion Ratio Lower Upper

64 100

66 33.6 22.3 41.3



Abundance Ion 64.00 (63.70 to 64.70): VU037566.D (-66) (-)



#9

Trichlorofluoromethane

Concen: 50.847 ug/L

RT: 2.16 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU037566.D

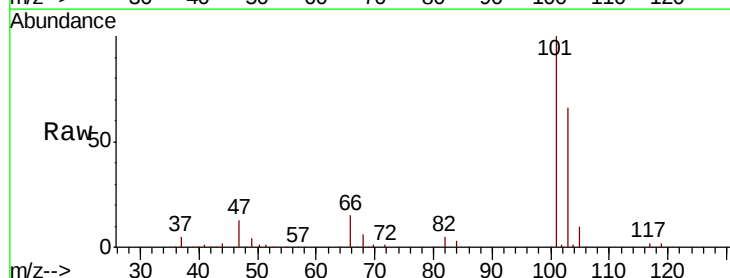
Acq: 03 Apr 2020 13:39

Tgt Ion: 101 Resp: 90339

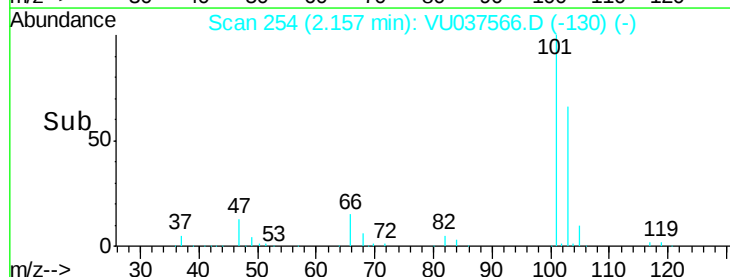
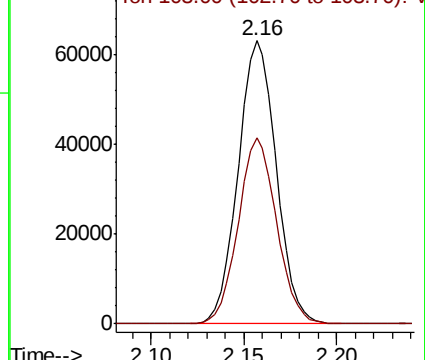
Ion Ratio Lower Upper

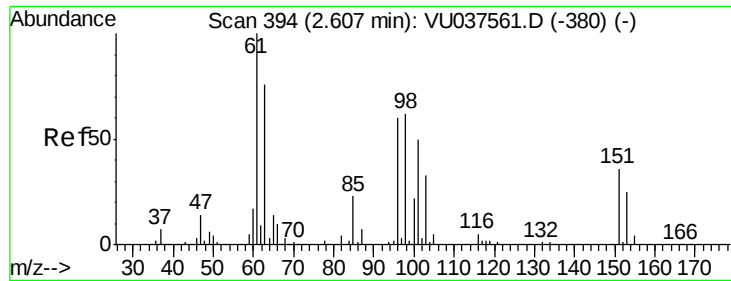
101 100

103 66.1 51.2 76.8



Abundance Ion 101.00 (100.70 to 101.70): VU037566.D (-130) (-)





#10

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

Concen: 51.799 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU037566.D

Acq: 03 Apr 2020 13:39

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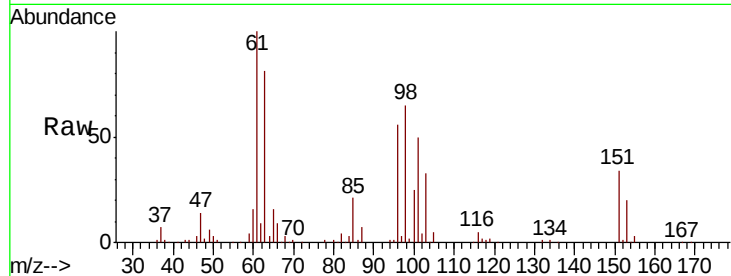
Tot Ion:101 Resp: 52492

Ion Ratio Lower Upper

101 100

85 44.2 35.4 53.2

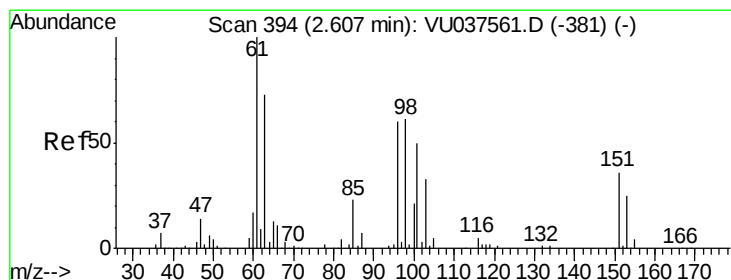
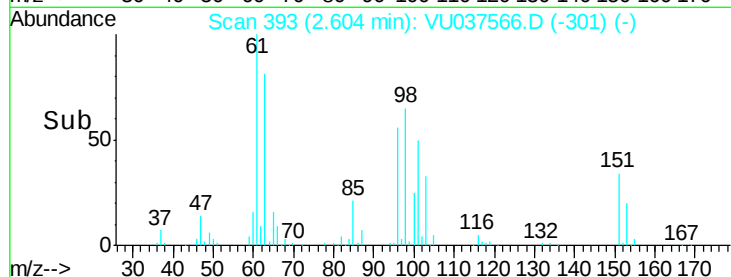
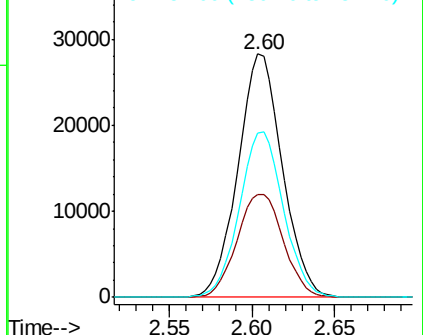
151 67.7 55.3 82.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 52.215 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU037566.D

Acq: 03 Apr 2020 13:39

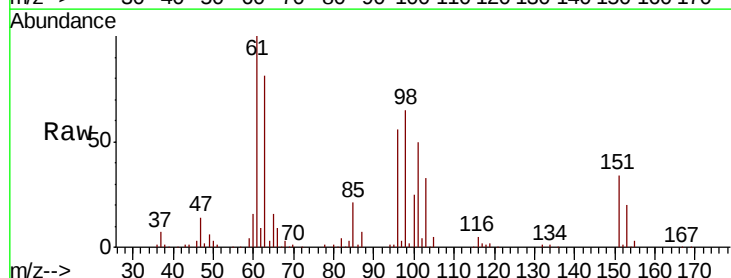
Tgt Ion: 96 Resp: 51365

Ion Ratio Lower Upper

96 100

61 179.0 117.2 217.8

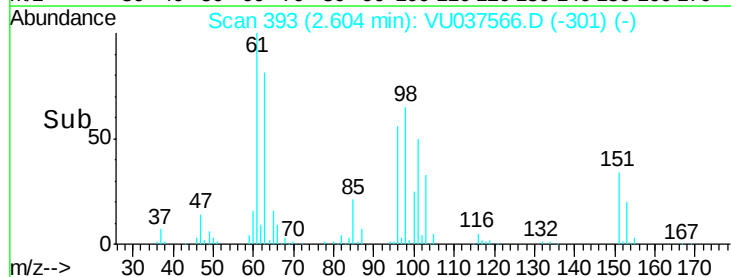
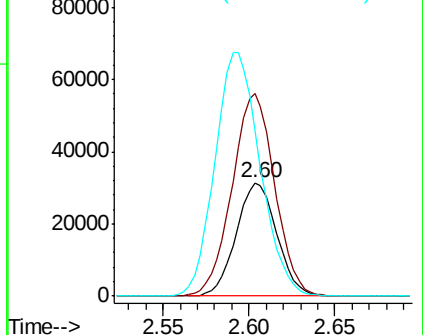
63 145.8 90.9 168.9

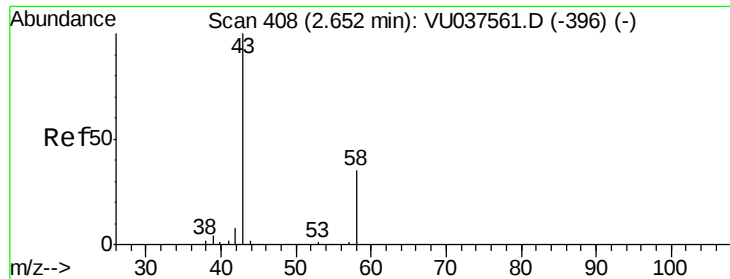


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 93.661 ug/L

RT: 2.66 min Scan# 409

Delta R.T. 0.00 min

Lab File: VU037566.D

Acq: 03 Apr 2020 13:39

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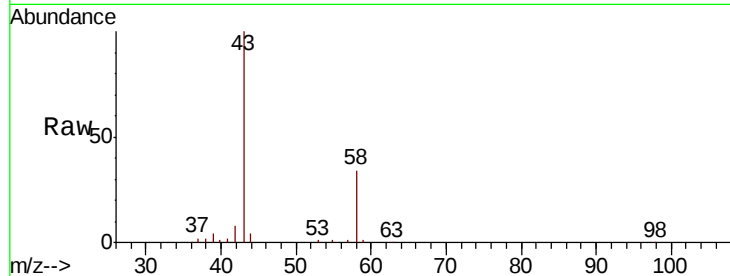
BFB35

Tot Ion: 43 Resp: 60774

Ion Ratio Lower Upper

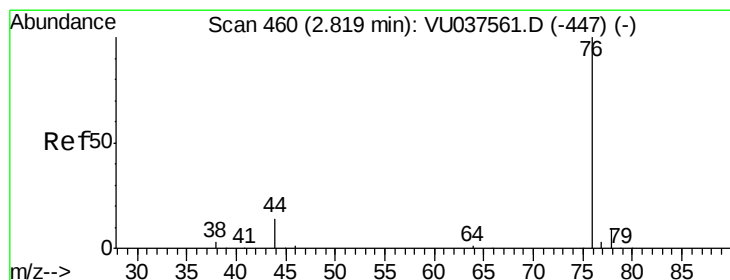
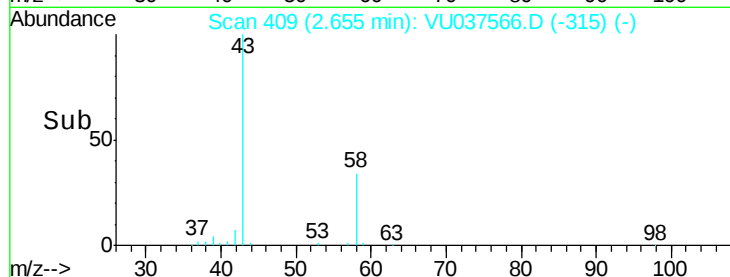
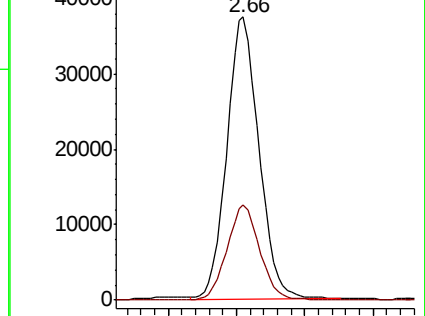
43 100

58 34.4 0.0 68.8



Abundance Ion 43.00 (42.70 to 43.70): VU037566.D (-315) (-)

Ion 58.00 (57.70 to 58.70): VU037566.D (-315) (-)



#14

Carbon disulfide

Concen: 51.400 ug/L

RT: 2.82 min Scan# 460

Delta R.T. 0.00 min

Lab File: VU037566.D

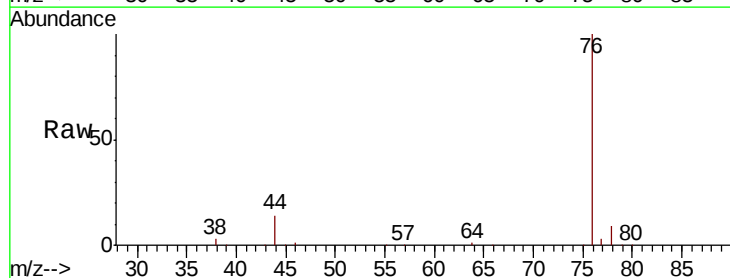
Acq: 03 Apr 2020 13:39

Tgt Ion: 76 Resp: 146055

Ion Ratio Lower Upper

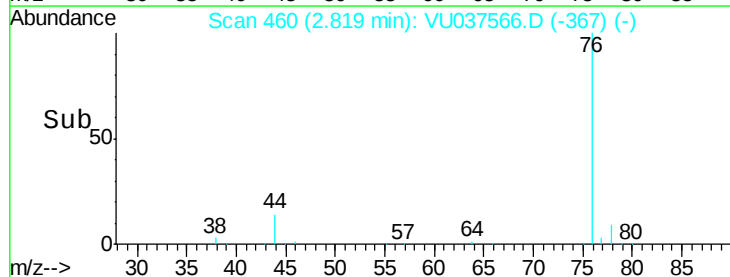
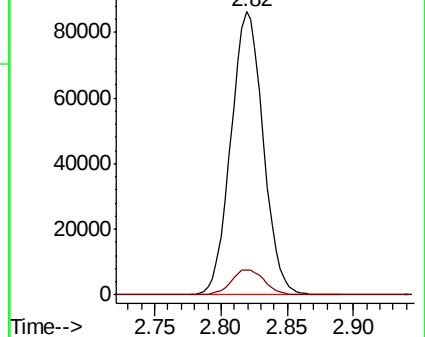
76 100

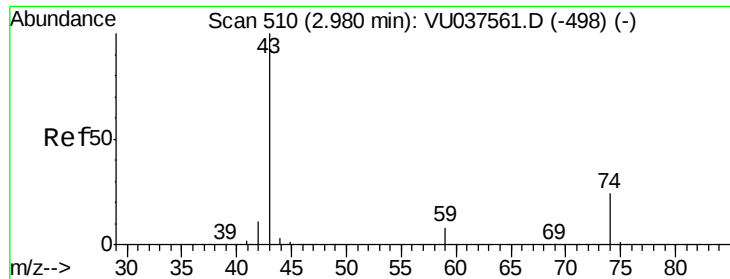
78 8.9 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VU037566.D (-367) (-)

Ion 78.00 (77.70 to 78.70): VU037566.D (-367) (-)





#15

Methvl Acetate

Concen: 51.129 ug/L

RT: 2.98 min Scan# 510

Delta R.T. 0.00 min

Lab File: VU037566.D

Acq: 03 Apr 2020 13:39

Instrument :

MSVOA_U

ClientSampleId :

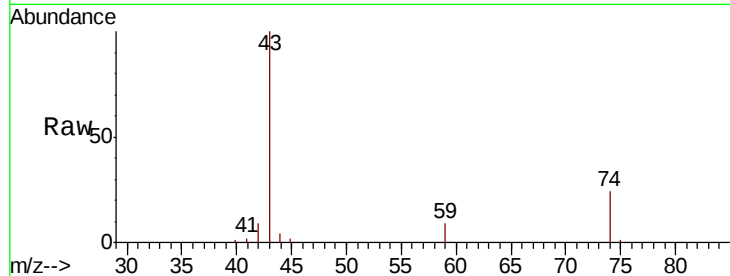
BFB35

Tot Ion: 43 Resp: 75179

Ion Ratio Lower Upper

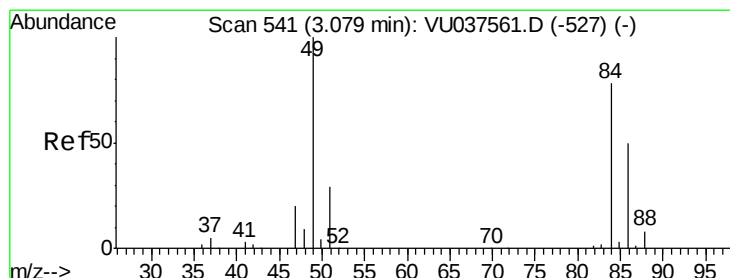
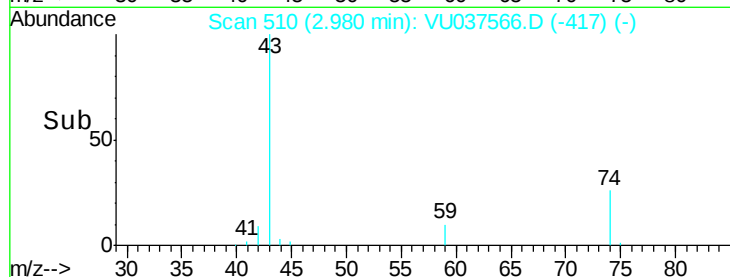
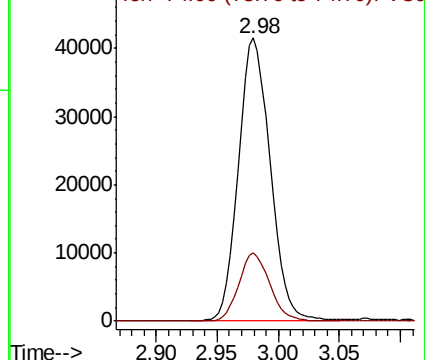
43 100

74 23.3 18.8 28.2



Abundance Ion 43.00 (42.70 to 43.70): VU037566.D (-417) (-)

Ion 74.00 (73.70 to 74.70): VU037566.D (-417) (-)



#16

Methylene chloride

Concen: 50.834 ug/L

RT: 3.08 min Scan# 540

Delta R.T. -0.00 min

Lab File: VU037566.D

Acq: 03 Apr 2020 13:39

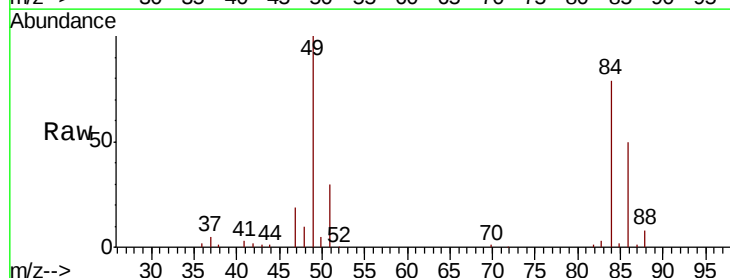
Tgt Ion: 84 Resp: 60656

Ion Ratio Lower Upper

84 100

86 62.6 44.8 83.2

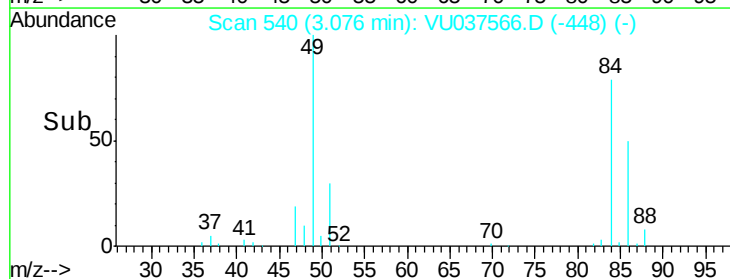
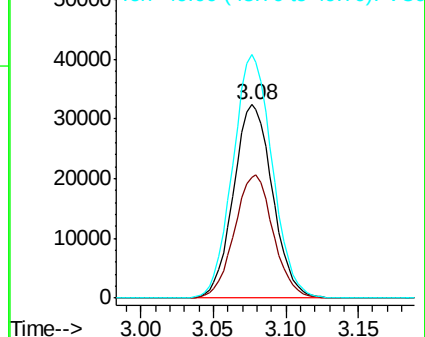
49 125.9 89.7 166.5

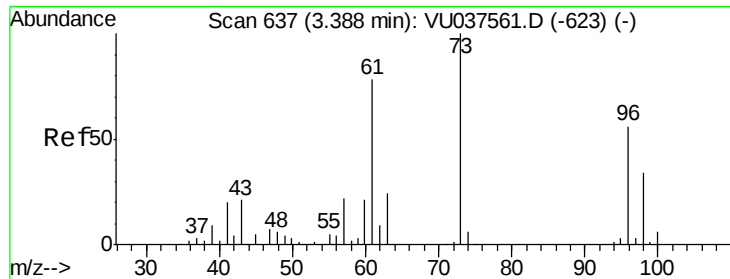


Abundance Ion 84.00 (83.70 to 84.70): VU037566.D (-448) (-)

Ion 86.00 (85.70 to 86.70): VU037566.D (-448) (-)

Ion 49.00 (48.70 to 49.70): VU037566.D (-448) (-)





#17

trans-1,2-Dichloroethene

Concen: 51.364 ug/L

RT: 3.39 min Scan# 637

Delta R.T. 0.00 min

Lab File: VU037566.D

Acq: 03 Apr 2020 13:39

Instrument :

MSVOA_U

ClientSampled :

BFB35

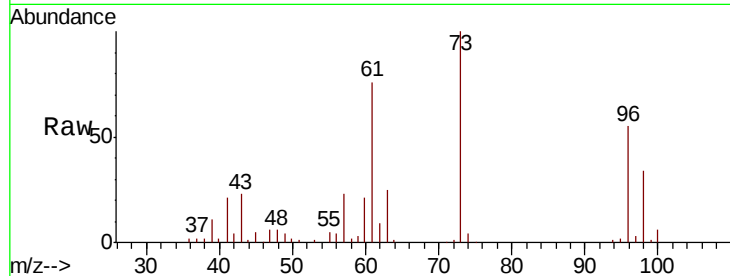
Tot Ion: 96 Resp: 54409

Ion Ratio Lower Upper

96 100

61 137.3 97.3 180.7

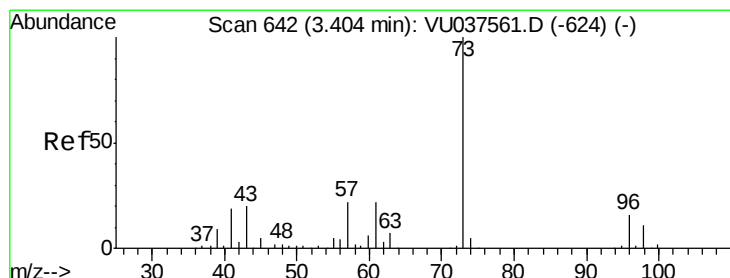
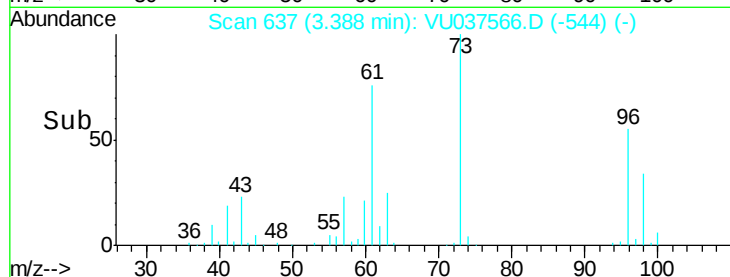
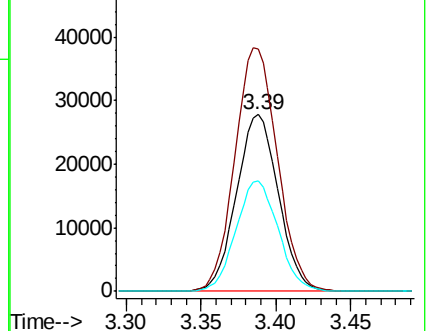
98 62.5 42.7 79.3



Abundance Ion 96.00 (95.70 to 96.70): VU037566.D (-544) (-)

Ion 61.00 (60.70 to 61.70): VU037566.D (-544) (-)

Ion 98.00 (97.70 to 98.70): VU037566.D (-544) (-)



#18

Methyl tert-butyl Ether

Concen: 51.575 ug/L

RT: 3.40 min Scan# 642

Delta R.T. 0.00 min

Lab File: VU037566.D

Acq: 03 Apr 2020 13:39

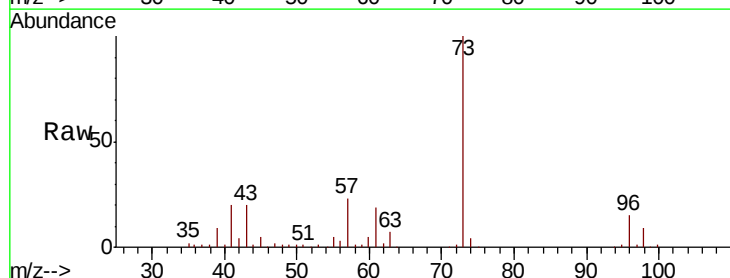
Tgt Ion: 73 Resp: 191508

Ion Ratio Lower Upper

73 100

43 21.4 16.4 24.6

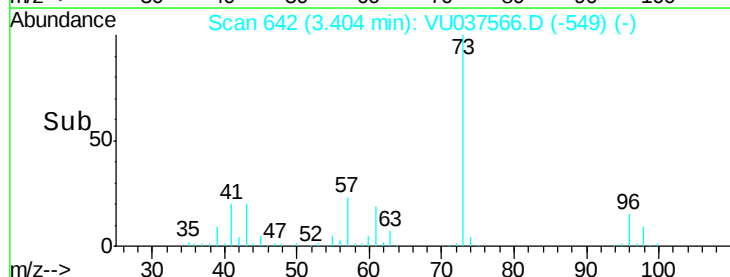
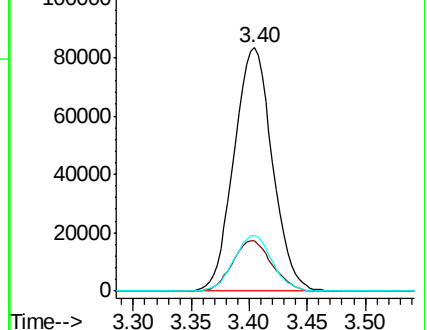
57 22.7 17.7 26.5

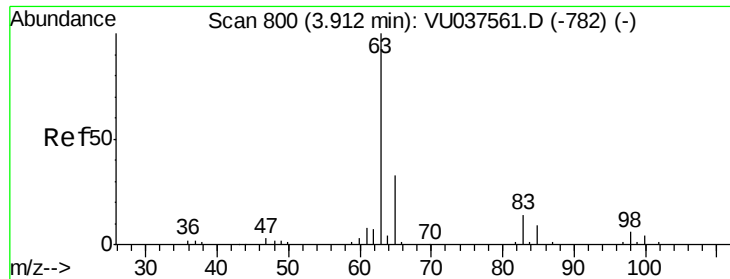


Abundance Ion 73.00 (72.70 to 73.70): VU037566.D (-549) (-)

Ion 43.00 (42.70 to 43.70): VU037566.D (-549) (-)

Ion 57.00 (56.70 to 57.70): VU037566.D (-549) (-)

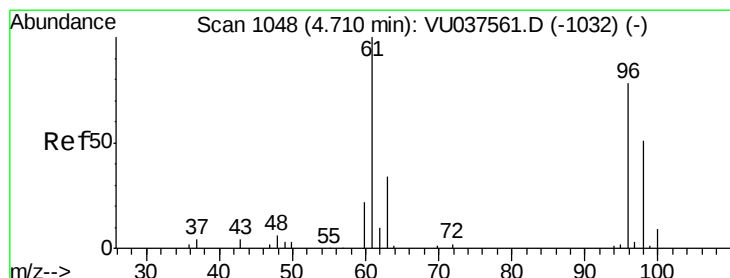
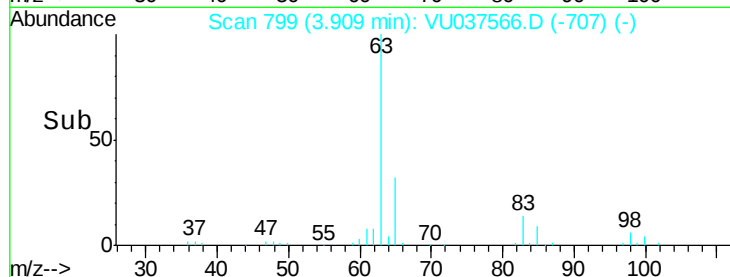
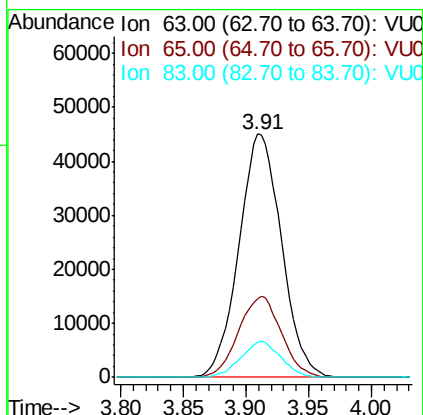
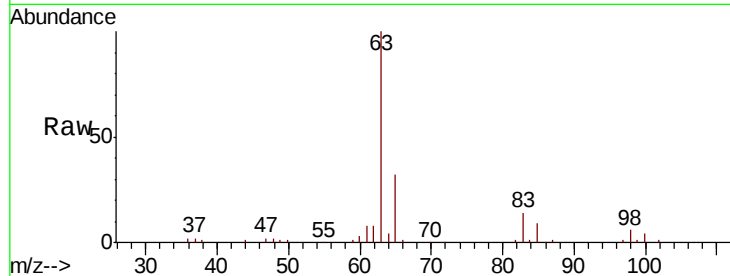




#19
 1,1-Dichloroethane
 Concen: 51.205 ug/L
 RT: 3.91 min Scan# 799
 Delta R.T. -0.00 min
 Lab File: VU037566.D
 Acq: 03 Apr 2020 13:39

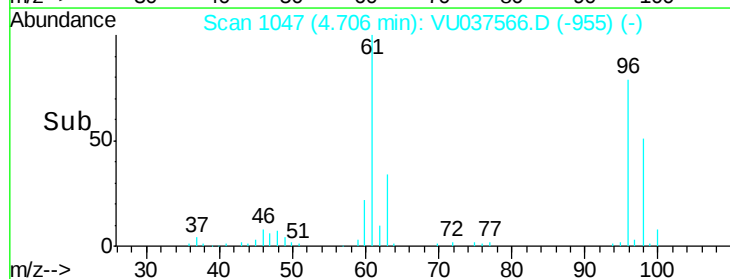
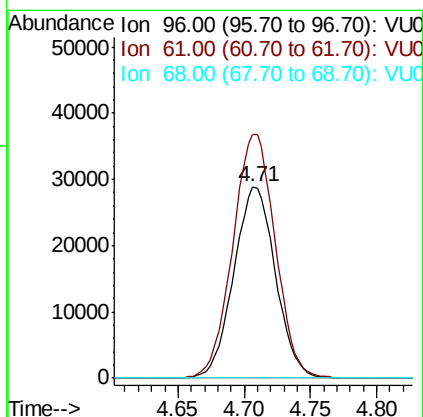
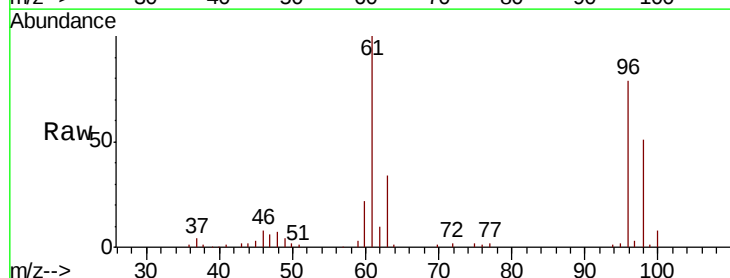
Instrument :
 MSVOA_U
 ClientSampleId :
 BFB35

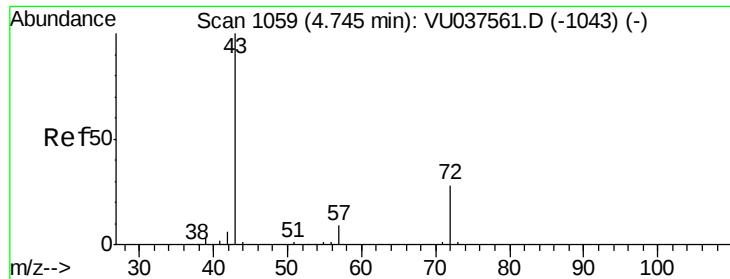
Tot Ion: 63 Resp: 106271
 Ion Ratio Lower Upper
 63 100
 65 32.1 23.2 43.2
 83 14.1 9.6 17.8



#20
 cis-1,2-Dichloroethene
 Concen: 51.721 ug/L
 RT: 4.71 min Scan# 1047
 Delta R.T. -0.00 min
 Lab File: VU037566.D
 Acq: 03 Apr 2020 13:39

Tgt Ion: 96 Resp: 63091
 Ion Ratio Lower Upper
 96 100
 61 126.8 90.2 167.6
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 102.204 ug/L

RT: 4.74 min Scan# 1059

Delta R.T. 0.00 min

Lab File: VU037566.D

Acq: 03 Apr 2020 13:39

Instrument :

MSVOA_U

ClientSampled :

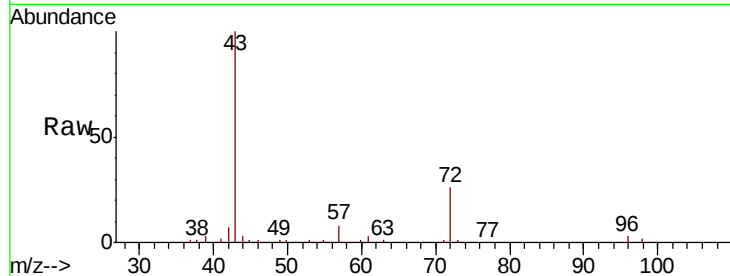
BFB35

Tot Ion: 43 Resp: 108243

Ion Ratio Lower Upper

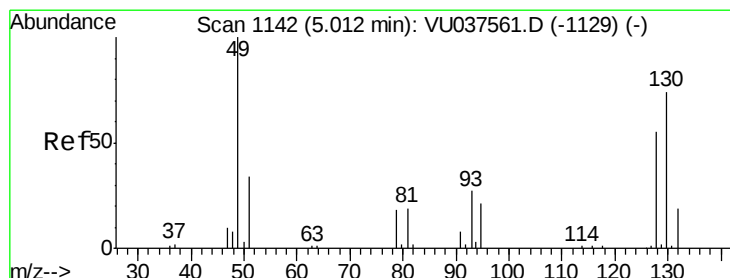
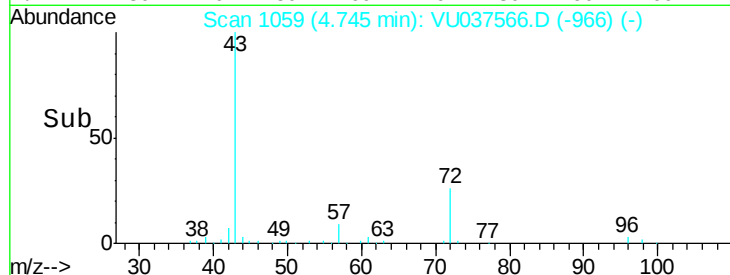
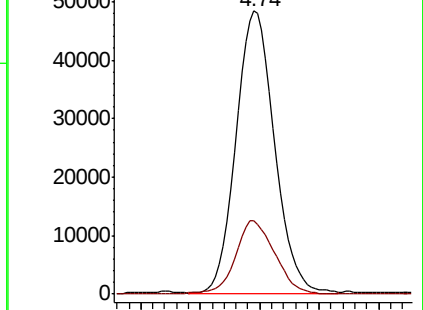
43 100

72 26.7 13.8 41.4



Abundance Ion 43.00 (42.70 to 43.70): VU037566.D (-966) (-)

Ion 72.00 (71.70 to 72.70): VU037566.D (-966) (-)



#23

Bromochloromethane

Concen: 51.618 ug/L

RT: 5.01 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VU037566.D

Acq: 03 Apr 2020 13:39

Tgt Ion: 128 Resp: 30222

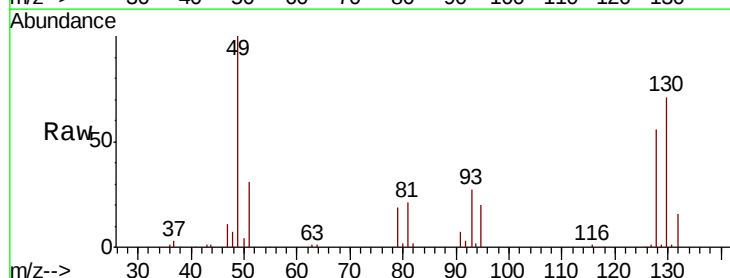
Ion Ratio Lower Upper

128 100

49 175.0 127.3 236.5

130 123.7 93.9 174.5

51 54.5 49.4 74.0

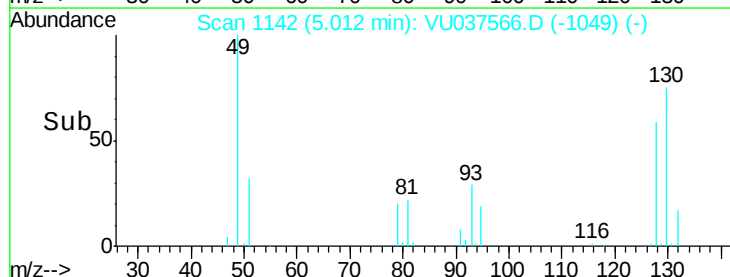
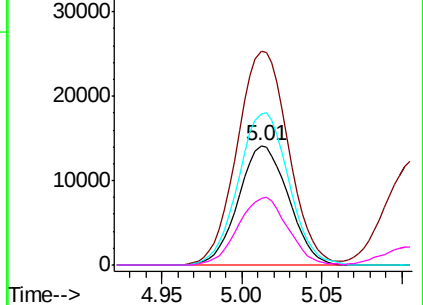


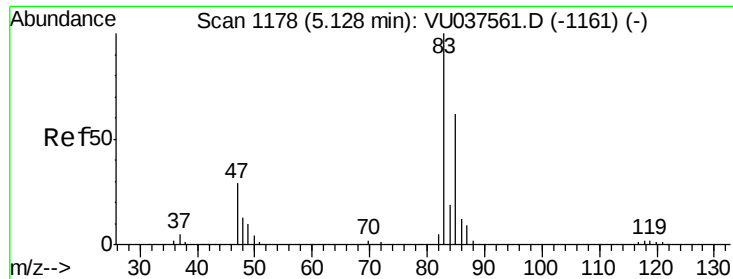
Abundance Ion 128.00 (127.70 to 128.70): VU037566.D (-1049) (-)

Ion 49.00 (48.70 to 49.70): VU037566.D (-1049) (-)

Ion 130.00 (129.70 to 130.70): VU037566.D (-1049) (-)

Ion 51.00 (50.70 to 51.70): VU037566.D (-1049) (-)

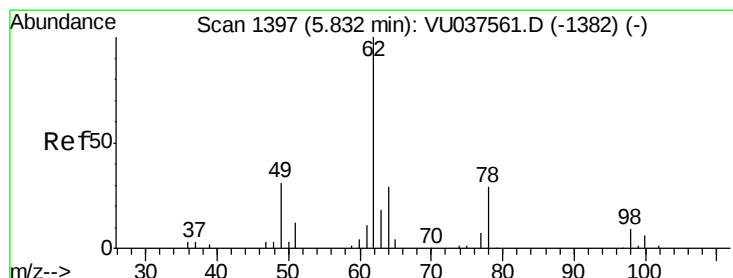
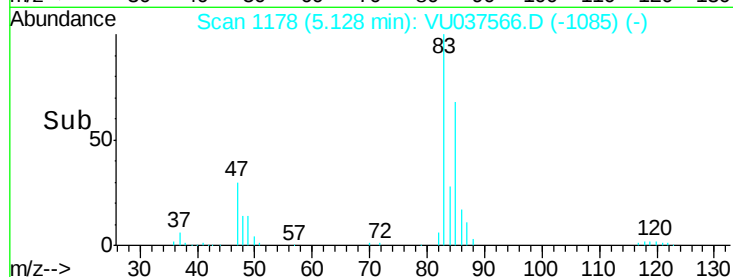
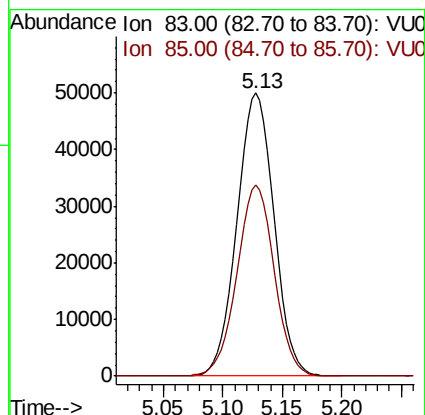
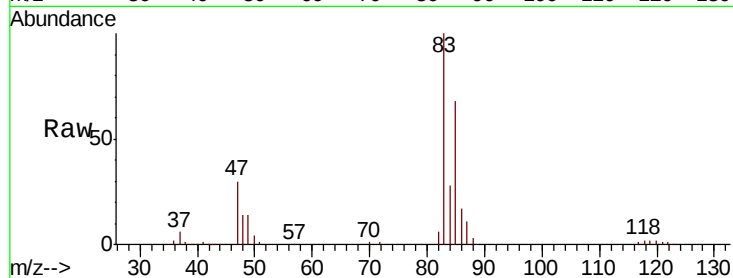




#25
Chloroform
Concen: 49.838 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. 0.00 min
Lab File: VU037566.D
Acq: 03 Apr 2020 13:39

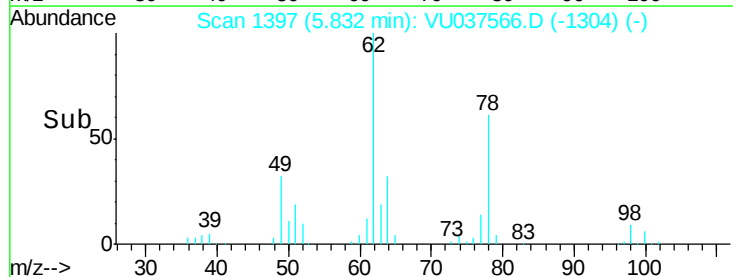
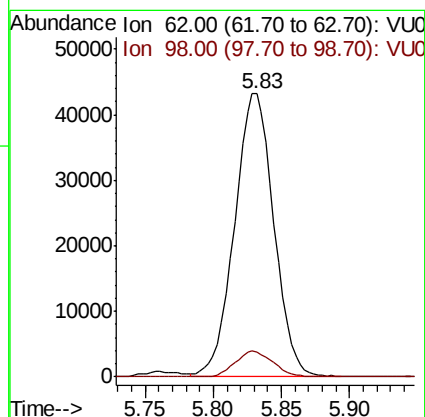
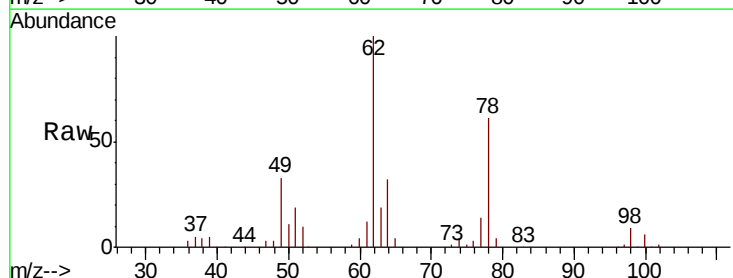
Instrument :
MSVOA_U
ClientSampled :
BFB35

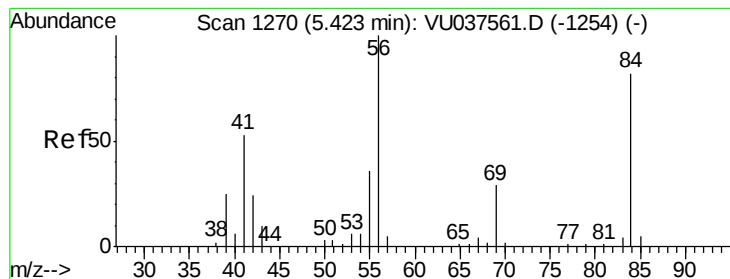
Tot Ion: 83 Resp: 107841
Ion Ratio Lower Upper
83 100
85 67.6 43.7 81.1



#27
1,2-Dichloroethane
Concen: 51.354 ug/L
RT: 5.83 min Scan# 1397
Delta R.T. 0.00 min
Lab File: VU037566.D
Acq: 03 Apr 2020 13:39

Tgt Ion: 62 Resp: 85760
Ion Ratio Lower Upper
62 100
98 8.7 7.1 10.7





#29

Cyclohexane

Concen: 52.986 ug/L

RT: 5.42 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VU037566.D

Acq: 03 Apr 2020 13:39

Instrument :

MSVOA_U

ClientSampleId :

BFB35

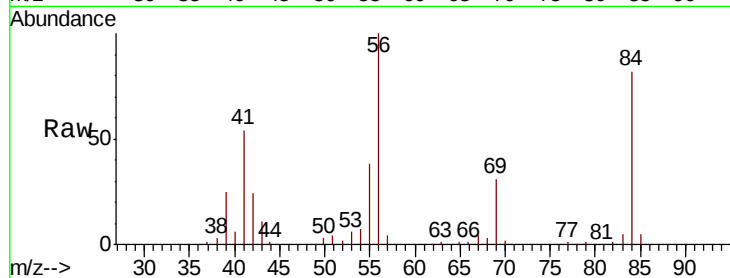
Tot Ion: 56 Resp: 94513

Ion Ratio Lower Upper

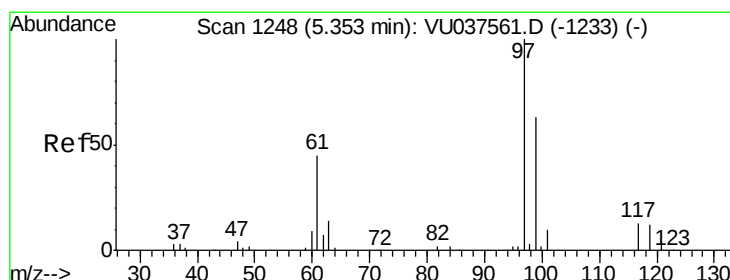
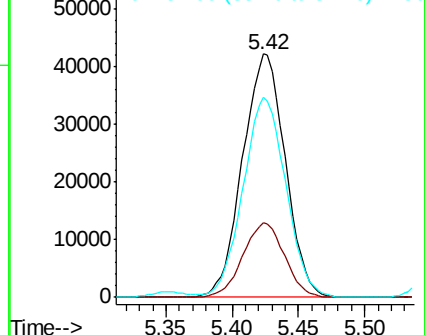
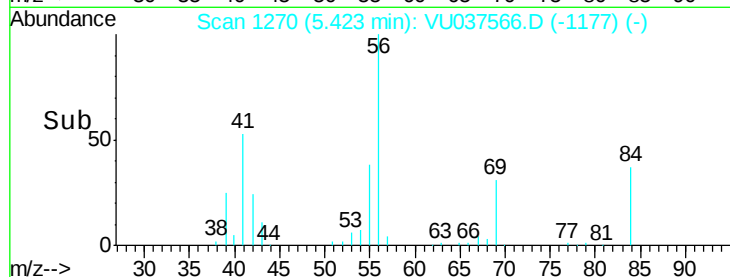
56 100

69 29.9 23.8 35.6

84 82.9 65.4 98.0



Abundance Ion 56.00 (55.70 to 56.70): VU037566.D (-1177) (-)



#30

1,1,1-Trichloroethane

Concen: 53.364 ug/L

RT: 5.35 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VU037566.D

Acq: 03 Apr 2020 13:39

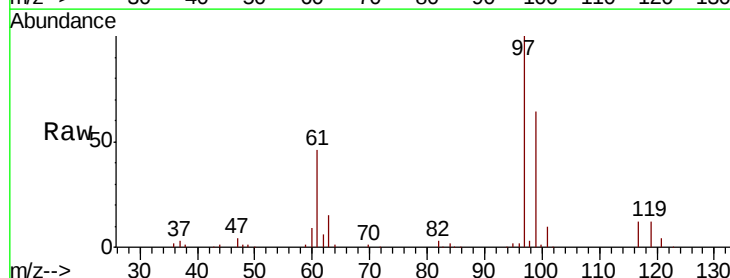
Tgt Ion: 97 Resp: 96279

Ion Ratio Lower Upper

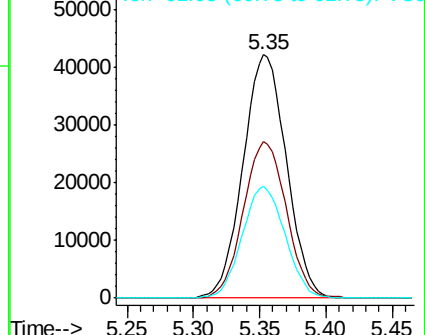
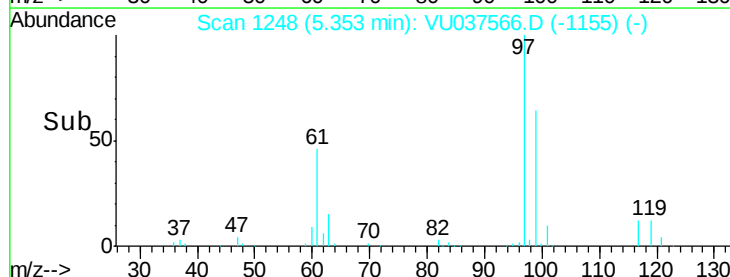
97 100

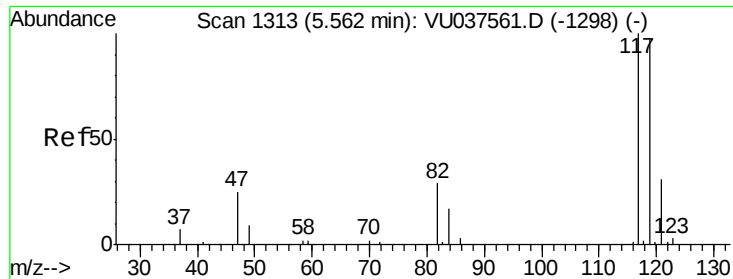
99 63.8 50.6 75.8

61 45.4 35.8 53.8



Abundance Ion 97.00 (96.70 to 97.70): VU037566.D (-1155) (-)





#31

Carbon tetrachloride

Concen: 53.266 ug/L

RT: 5.56 min Scan# 1312

Delta R.T. -0.00 min

Lab File: VU037566.D

Acq: 03 Apr 2020 13:39

Instrument :

MSVOA_U

ClientSampleId :

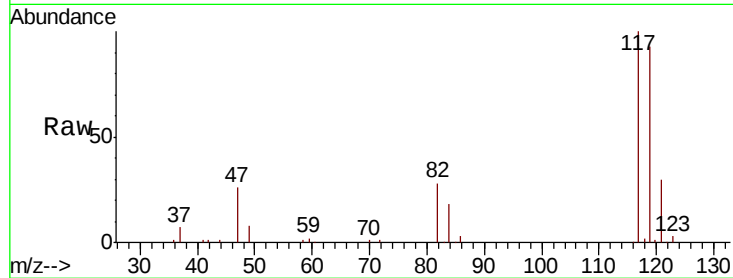
BFB35

Tot Ion:117 Resp: 79095

Ion Ratio Lower Upper

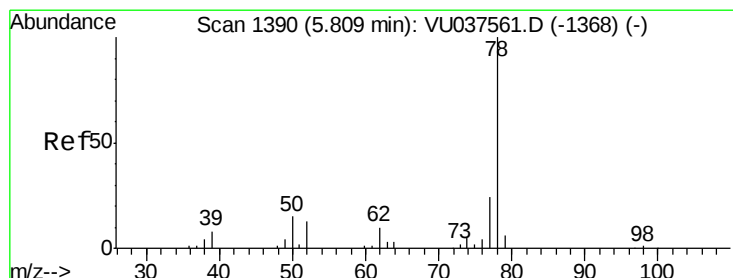
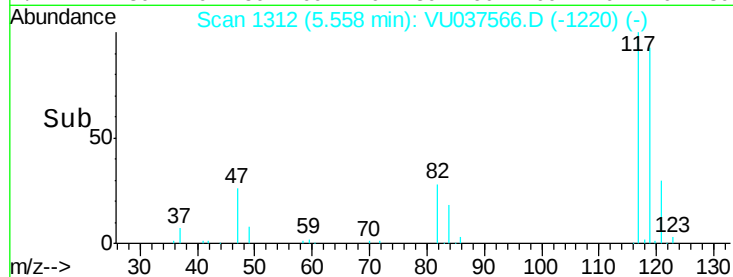
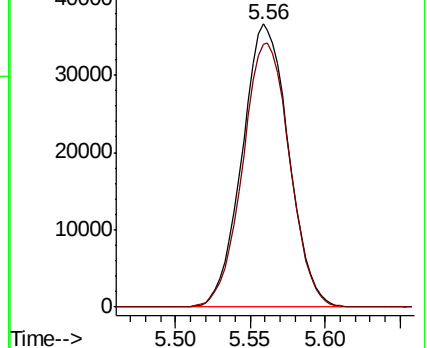
117 100

119 94.1 77.8 116.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 52.476 ug/L

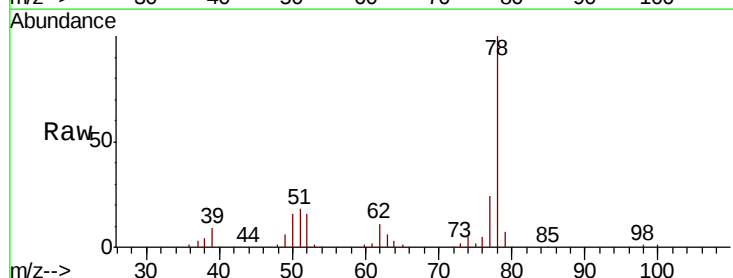
RT: 5.81 min Scan# 1390

Delta R.T. 0.00 min

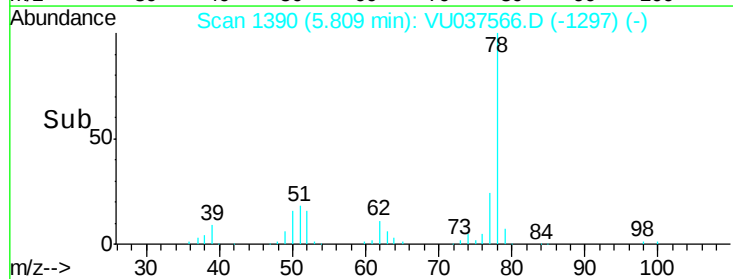
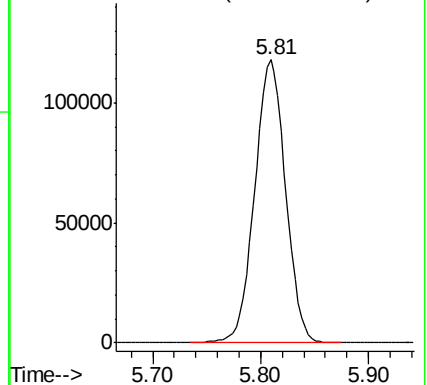
Lab File: VU037566.D

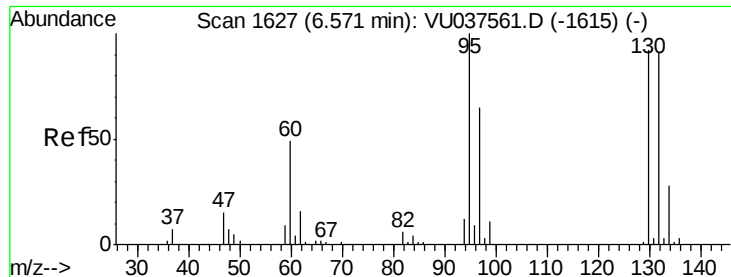
Acq: 03 Apr 2020 13:39

Tgt Ion: 78 Resp: 234027



Abundance Ion 78.00 (77.70 to 78.70): VU0

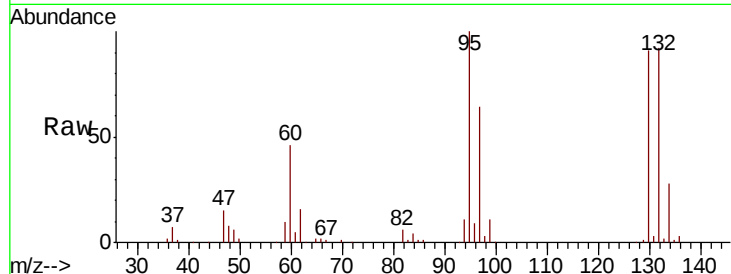




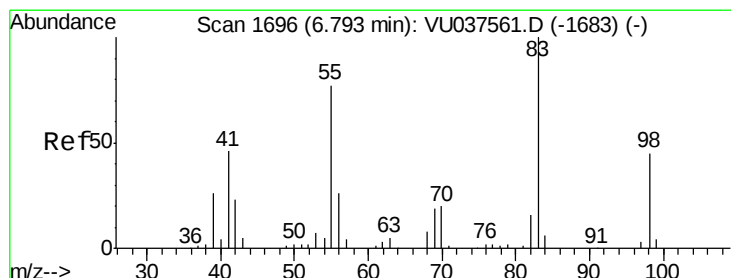
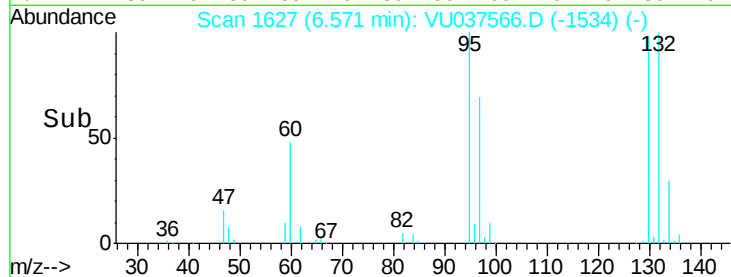
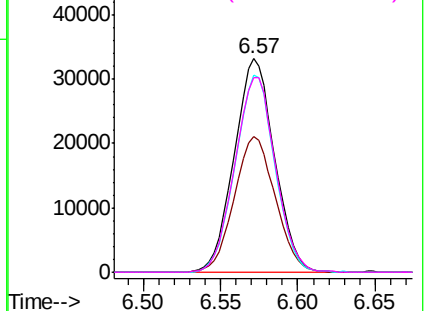
#34
 Trichloroethene
 Concen: 51.483 ug/L
 RT: 6.57 min Scan# 1627
 Delta R.T. 0.00 min
 Lab File: VU037566.D
 Acq: 03 Apr 2020 13:39

Instrument :
 MSVOA_U
 ClientSampled :
 BFB35

Tot Ion:	95	Resp:	60035
Ion	Ratio	Lower	Upper
95	100		
97	63.6	45.2	84.0
132	92.1	63.7	118.3
130	90.9	64.5	119.7

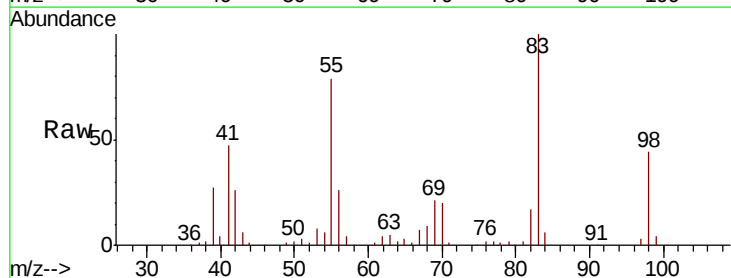


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

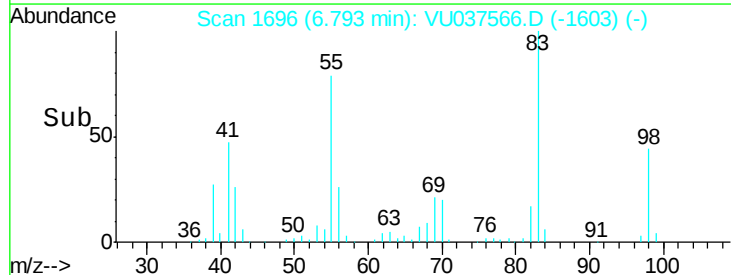
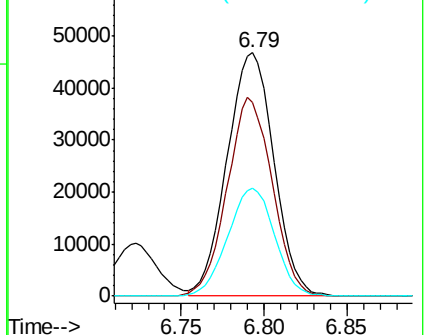


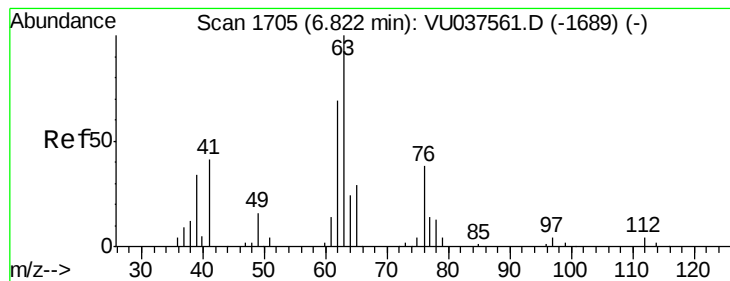
#35
 Methylcyclohexane
 Concen: 51.091 ug/L
 RT: 6.79 min Scan# 1696
 Delta R.T. 0.00 min
 Lab File: VU037566.D
 Acq: 03 Apr 2020 13:39

Tgt Ion:	83	Resp:	92054
Ion	Ratio	Lower	Upper
83	100		
55	78.7	61.1	91.7
98	44.4	35.3	52.9



Abundance Ion 83.00 (82.70 to 83.70): VU0
 Ion 55.00 (54.70 to 55.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 52.035 ug/L

RT: 6.82 min Scan# 1705

Delta R.T. 0.00 min

Lab File: VU037566.D

Acq: 03 Apr 2020 13:39

Instrument :

MSVOA_U

ClientSampleId :

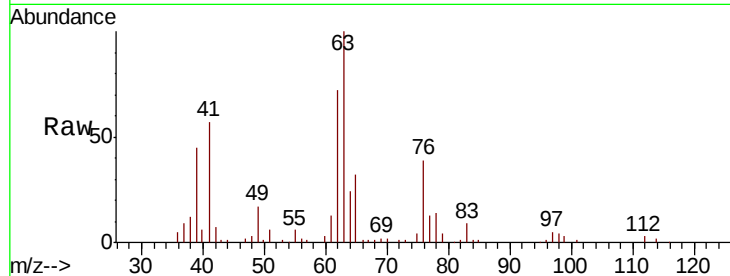
BFB35

Tot Ion: 63 Resp: 66119

Ion Ratio Lower Upper

63 100

112 3.4 3.1 4.7



Abundance Ion 63.00 (62.70 to 63.70): VU037566.D (-1612) (-)

Ion 112.00 (111.70 to 112.70): VU037566.D (-1612) (-)

6.82

40000

30000

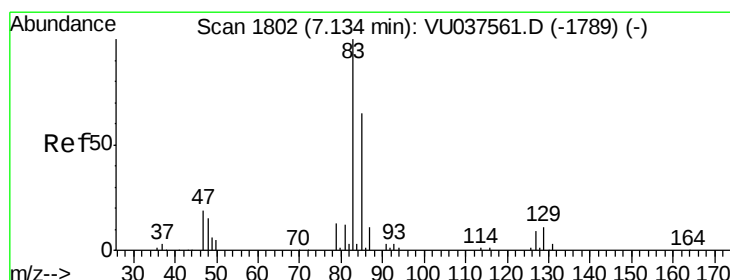
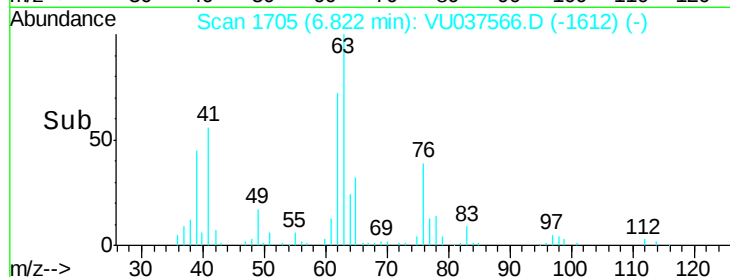
20000

10000

0

6.75 6.80 6.85 6.90

Time-->



#38

Bromodichloromethane

Concen: 53.107 ug/L

RT: 7.13 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VU037566.D

Acq: 03 Apr 2020 13:39

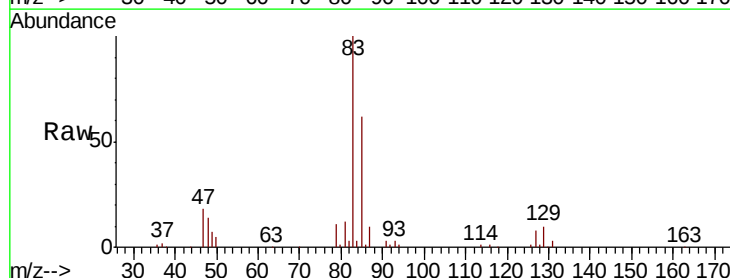
Tgt Ion: 83 Resp: 87768

Ion Ratio Lower Upper

83 100

85 62.1 45.2 84.0

127 7.6 7.0 10.4



Abundance Ion 83.00 (82.70 to 83.70): VU037566.D (-1709) (-)

Ion 85.00 (84.70 to 85.70): VU037566.D (-1709) (-)

Ion 127.00 (126.70 to 127.70): VU037566.D (-1709) (-)

7.13

60000

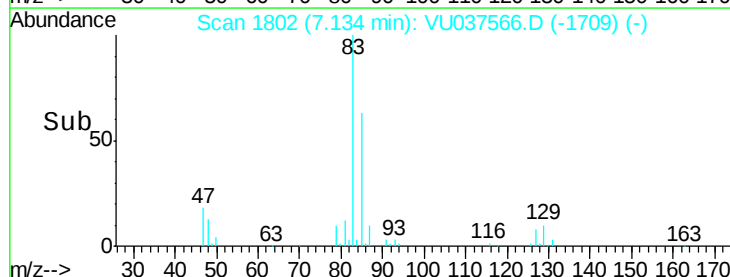
40000

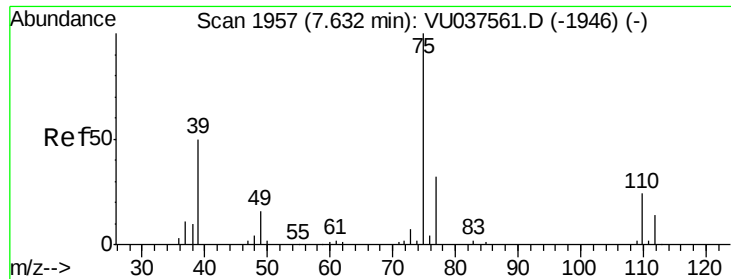
20000

0

7.05 7.10 7.15 7.20

Time-->

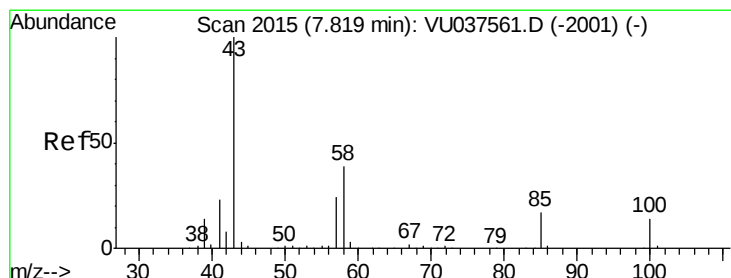
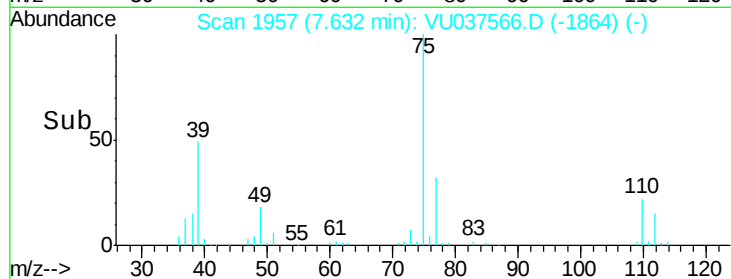
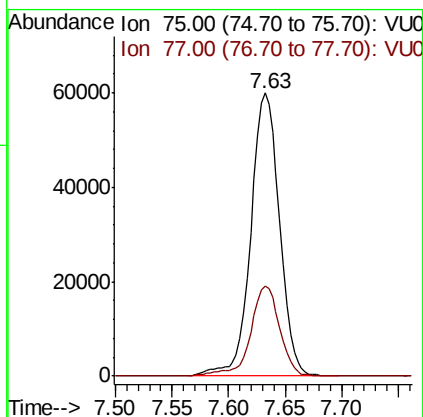
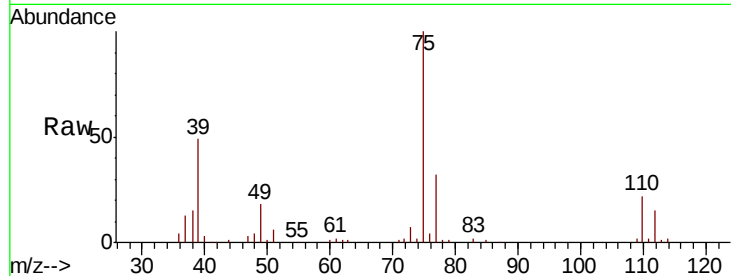




#39
 cis-1,3-Dichloropropene
 Concen: 53.418 ug/L
 RT: 7.63 min Scan# 1957
 Delta R.T. 0.00 min
 Lab File: VU037566.D
 Acq: 03 Apr 2020 13:39

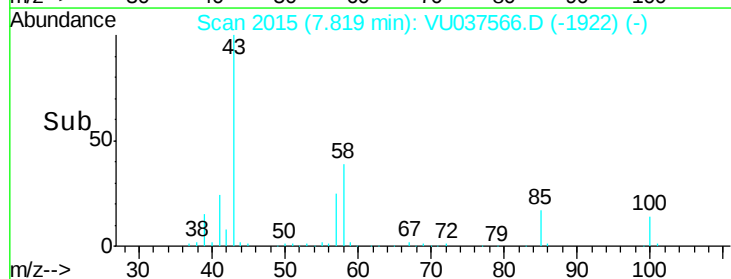
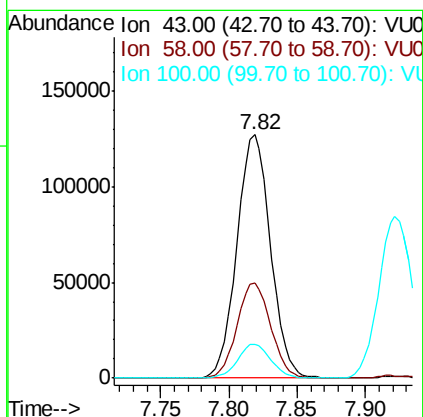
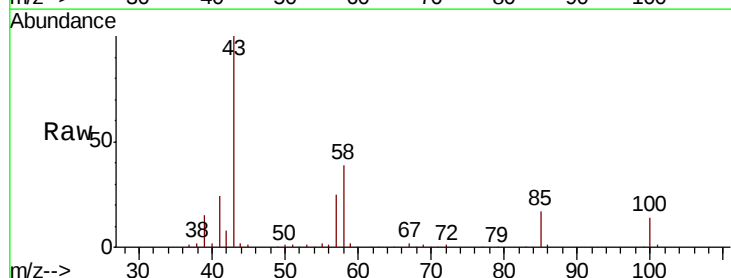
Instrument :
 MSVOA_U
 ClientSampleId :
 BFB35

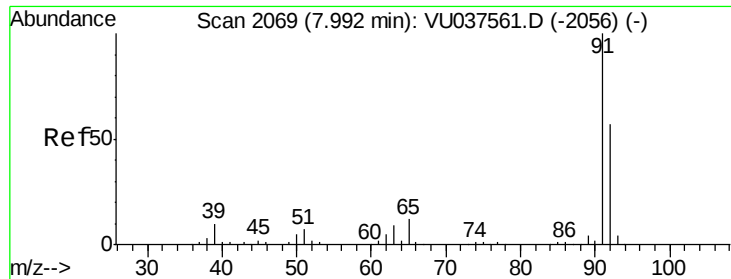
Tot Ion: 75 Resp: 106017
 Ion Ratio Lower Upper
 75 100
 77 31.9 22.5 41.7



#40
 4-Methyl-2-pentanone
 Concen: 105.607 ug/L
 RT: 7.82 min Scan# 2015
 Delta R.T. 0.00 min
 Lab File: VU037566.D
 Acq: 03 Apr 2020 13:39

Tgt Ion: 43 Resp: 217756
 Ion Ratio Lower Upper
 43 100
 58 38.9 31.4 47.0
 100 13.7 11.0 16.4





#42

Toluene

Concen: 51.938 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. 0.00 min

Lab File: VU037566.D

Acq: 03 Apr 2020 13:39

Instrument :

MSVOA_U

ClientSampleId :

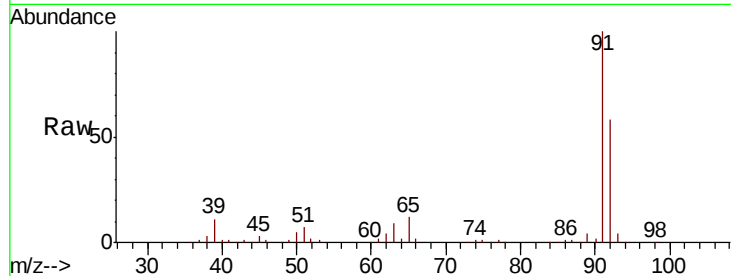
BFB35

Tot Ion: 91 Resp: 250655

Ion Ratio Lower Upper

91 100

92 57.8 39.7 73.7



Abundance Ion 91.00 (90.70 to 91.70): VU037566.D (-1976) (-)

Ion 92.00 (91.70 to 92.70): VU037566.D (-1976) (-)

7.99

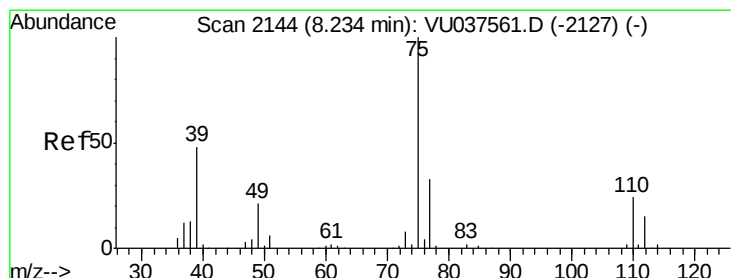
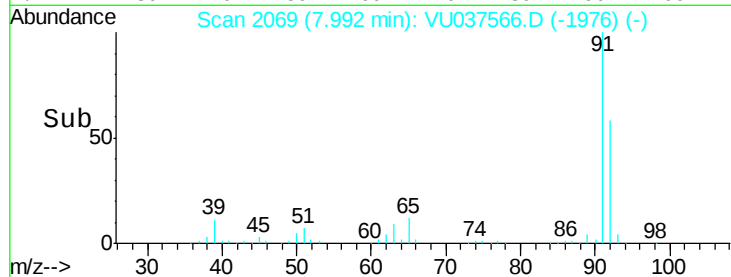
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 53.511 ug/L

RT: 8.23 min Scan# 2144

Delta R.T. 0.00 min

Lab File: VU037566.D

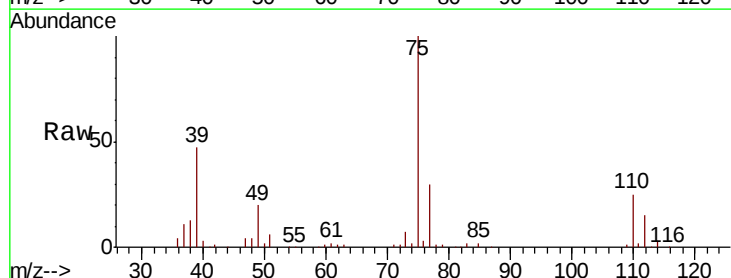
Acq: 03 Apr 2020 13:39

Tgt Ion: 75 Resp: 104585

Ion Ratio Lower Upper

75 100

77 30.5 23.4 43.6



Abundance Ion 75.00 (74.70 to 75.70): VU037566.D (-2051) (-)

Ion 77.00 (76.70 to 77.70): VU037566.D (-2051) (-)

8.23

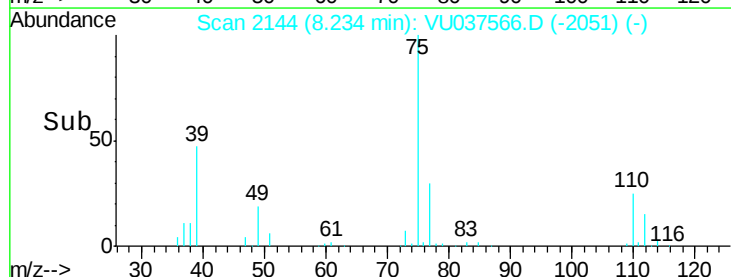
60000

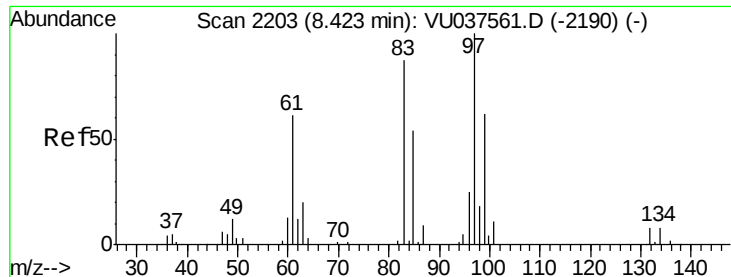
40000

20000

0

Time-->

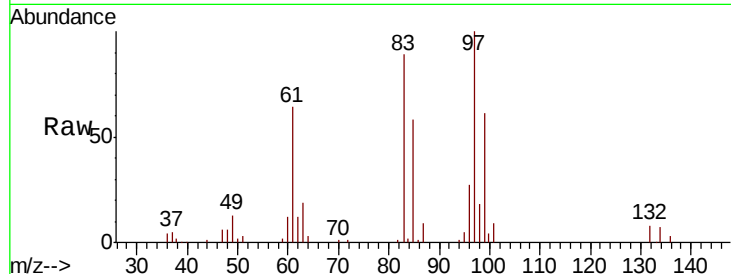




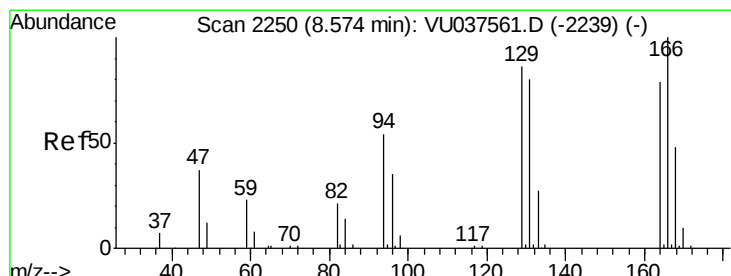
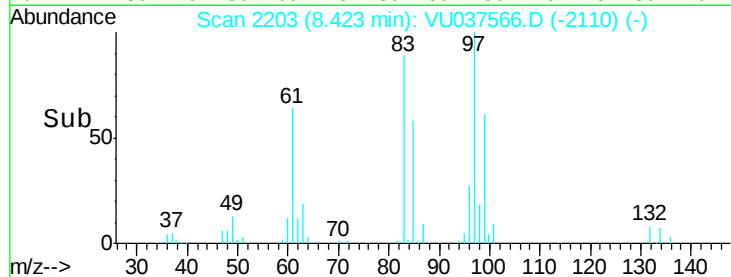
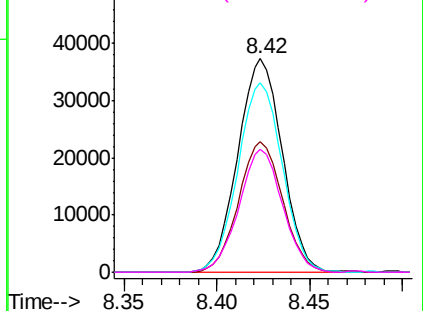
#45
 1,1,2-Trichloroethane
 Concen: 53.838 ug/L
 RT: 8.42 min Scan# 2203
 Delta R.T. 0.00 min
 Lab File: VU037566.D
 Acq: 03 Apr 2020 13:39

Instrument :
 MSVOA_U
 ClientSampled :
 BFB35

Tot Ion:	97	Resp:	62459
Ion	Ratio	Lower	Upper
97	100		
99	60.9	43.3	80.5
83	88.7	60.8	112.8
85	57.6	37.9	70.5

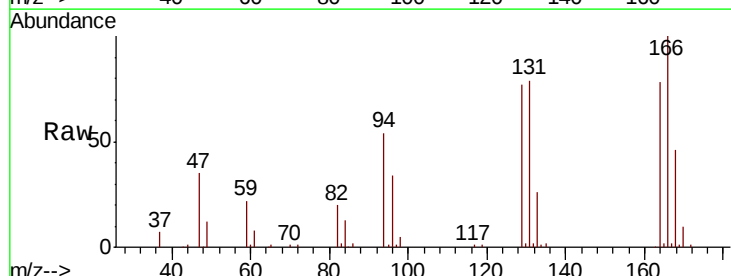


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 99.00 (98.70 to 99.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0
 Ion 85.00 (84.70 to 85.70): VU0

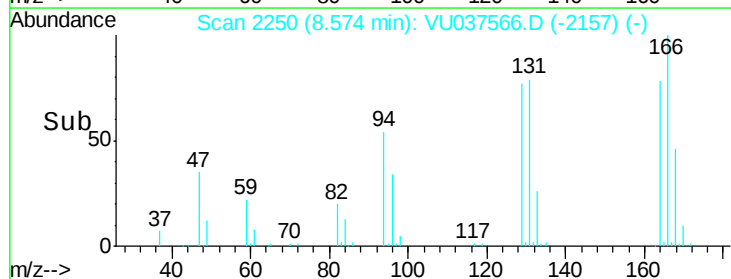
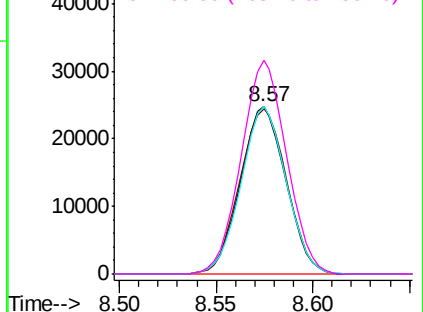


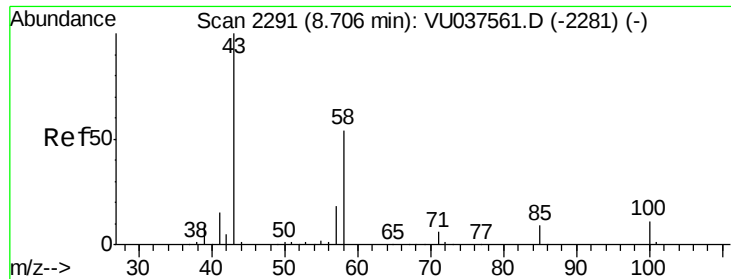
#46
 Tetrachloroethene
 Concen: 51.960 ug/L
 RT: 8.57 min Scan# 2250
 Delta R.T. 0.00 min
 Lab File: VU037566.D
 Acq: 03 Apr 2020 13:39

Tgt Ion:	164	Resp:	40683
Ion	Ratio	Lower	Upper
164	100		
129	98.5	76.5	142.1
131	100.1	71.7	133.1
166	127.5	88.8	165.0



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

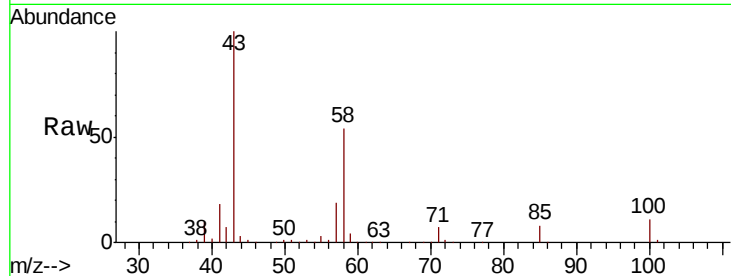




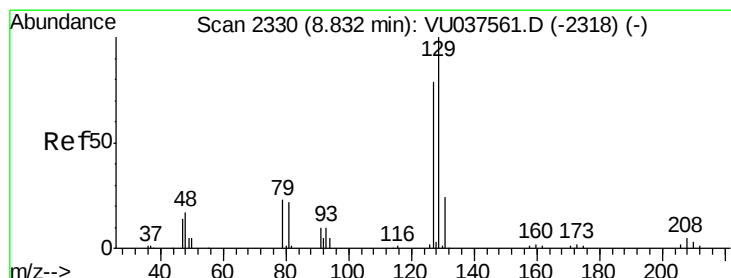
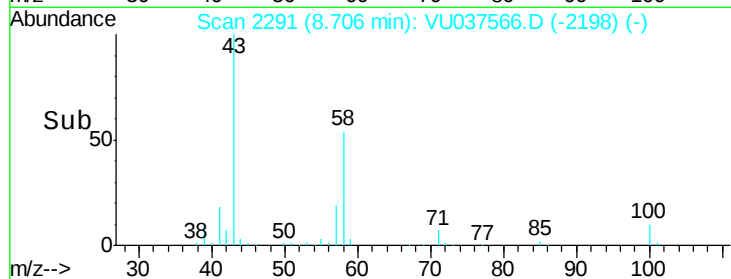
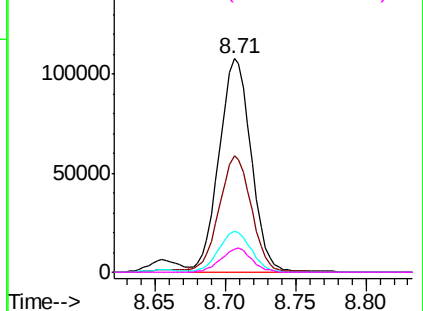
#48
2-Hexanone
Concen: 106.168 ug/L
RT: 8.71 min Scan# 2291
Delta R.T. 0.00 min
Lab File: VU037566.D
Acq: 03 Apr 2020 13:39

Instrument :
MSVOA_U
ClientSampled :
BFB35

Tot Ion: 43 Resp: 170240
Ion Ratio Lower Upper
43 100
58 55.5 44.4 66.6
57 19.6 15.1 22.7
100 10.9 8.7 13.1

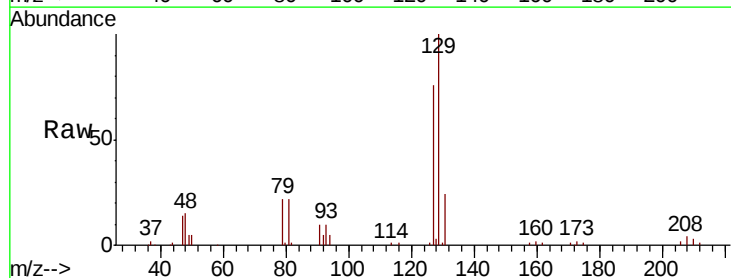


Abundance Ion 43.00 (42.70 to 43.70): VU037566.D (-2198) (-)
Ion 58.00 (57.70 to 58.70): VU037566.D (-2198) (-)
Ion 57.00 (56.70 to 57.70): VU037566.D (-2198) (-)
Ion 100.00 (99.70 to 100.70): VU037566.D (-2198) (-)

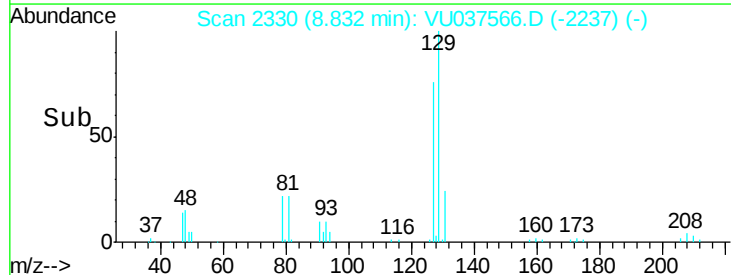
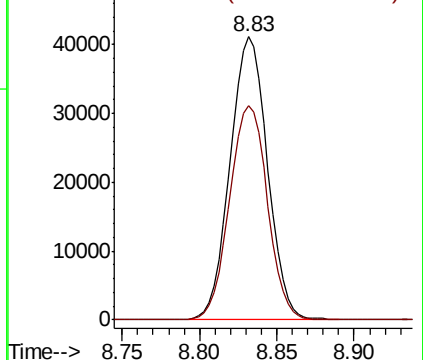


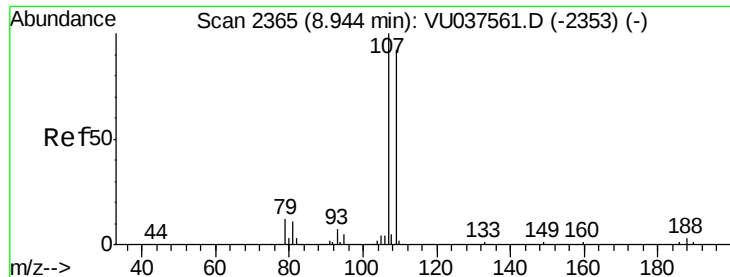
#49
Dibromochloromethane
Concen: 53.384 ug/L
RT: 8.83 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VU037566.D
Acq: 03 Apr 2020 13:39

Tgt Ion: 129 Resp: 69078
Ion Ratio Lower Upper
129 100
127 75.9 55.0 102.2



Abundance Ion 129.00 (128.70 to 129.70): VU037566.D (-2237) (-)
Ion 127.00 (126.70 to 127.70): VU037566.D (-2237) (-)

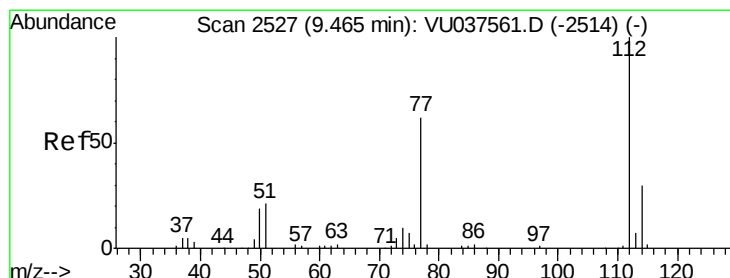
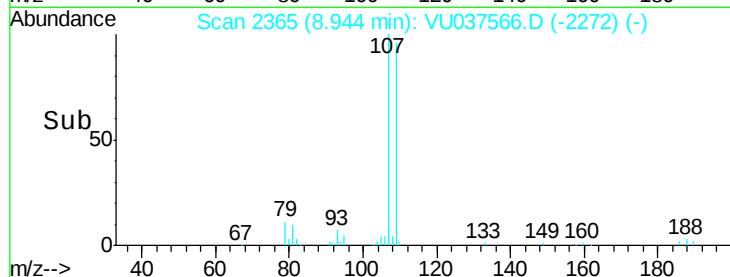
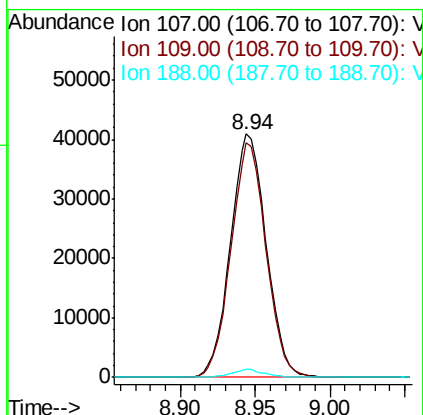
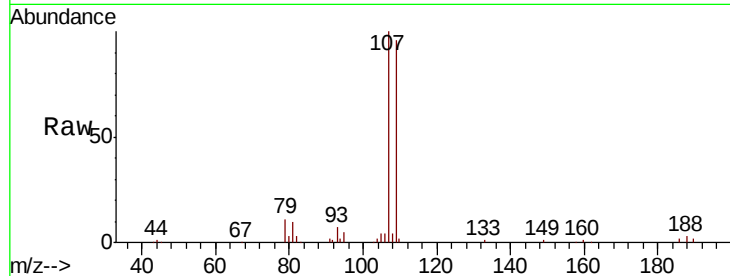




#50
 1,2-Dibromoethane
 Concen: 53.300 ug/L
 RT: 8.94 min Scan# 2365
 Delta R.T. 0.00 min
 Lab File: VU037566.D
 Acq: 03 Apr 2020 13:39

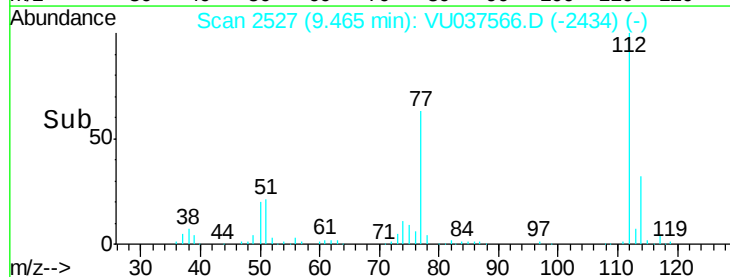
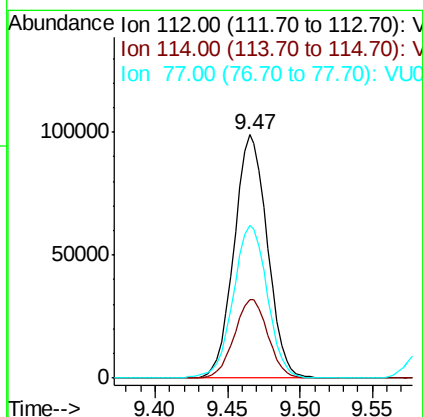
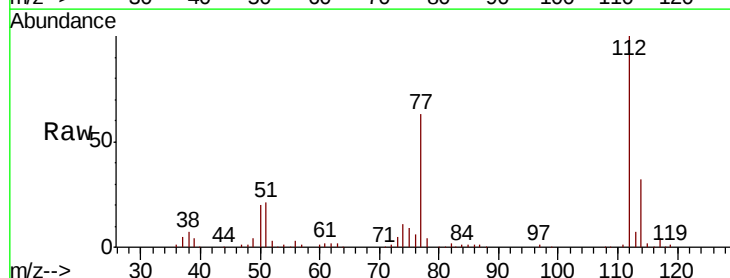
Instrument :
 MSVOA_U
 ClientSampled :
 BFB35

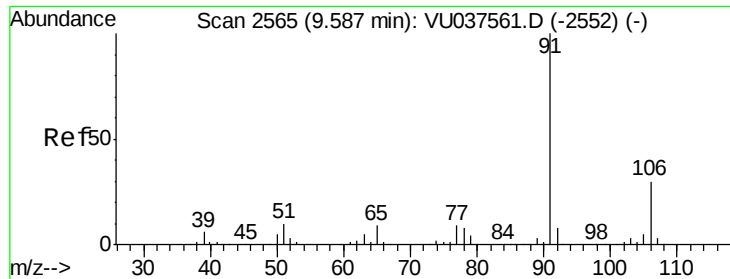
Tot Ion:107 Resp: 68004
 Ion Ratio Lower Upper
 107 100
 109 96.3 64.1 119.1
 188 3.2 2.3 3.5



#51
 Chlorobenzene
 Concen: 52.557 ug/L
 RT: 9.47 min Scan# 2527
 Delta R.T. 0.00 min
 Lab File: VU037566.D
 Acq: 03 Apr 2020 13:39

Tgt Ion:112 Resp: 157325
 Ion Ratio Lower Upper
 112 100
 114 32.4 21.0 39.0
 77 62.9 50.2 75.4





#52

Ethylbenzene

Concen: 52.298 ug/L

RT: 9.59 min Scan# 2565

Delta R.T. 0.00 min

Lab File: VU037566.D

Acq: 03 Apr 2020 13:39

Instrument :

MSVOA_U

ClientSampleId :

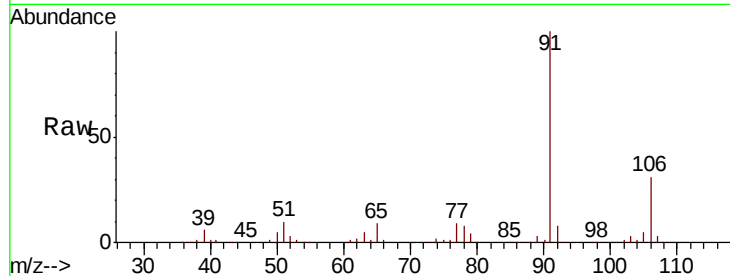
BFB35

Tot Ion: 91 Resp: 285425

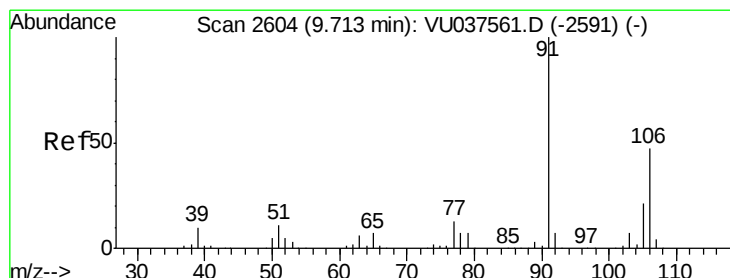
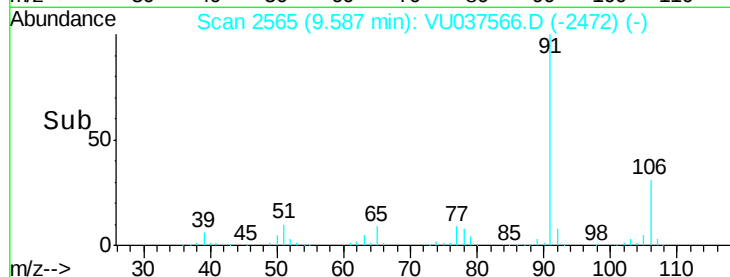
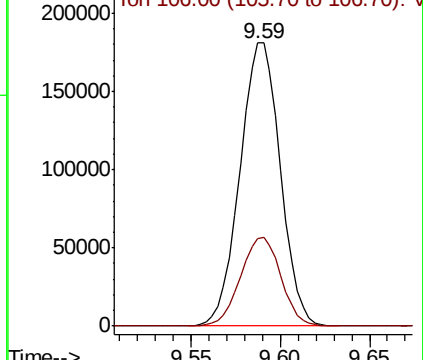
Ion Ratio Lower Upper

91 100

106 30.9 20.8 38.6



Abundance Ion 91.00 (90.70 to 91.70): VU037566.D (-2472) (-)



#53

m,p-Xylene

Concen: 52.572 ug/L

RT: 9.71 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VU037566.D

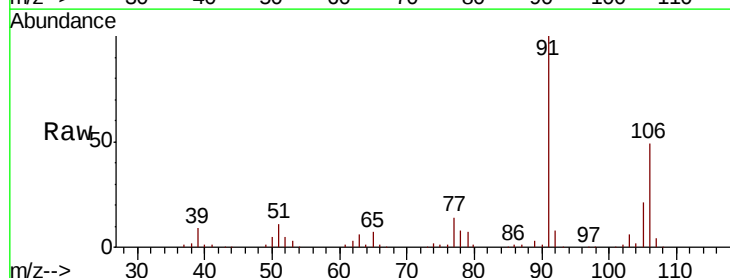
Acq: 03 Apr 2020 13:39

Tgt Ion: 106 Resp: 107022

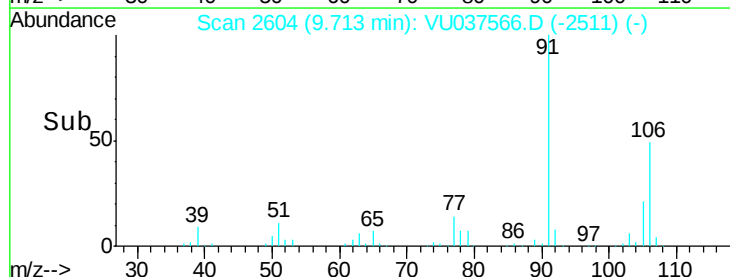
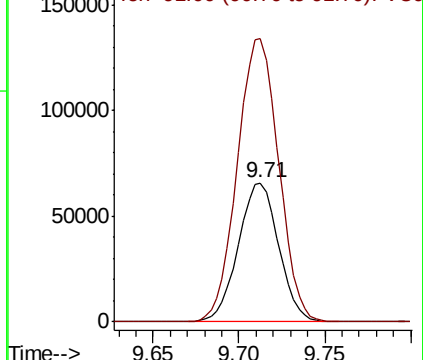
Ion Ratio Lower Upper

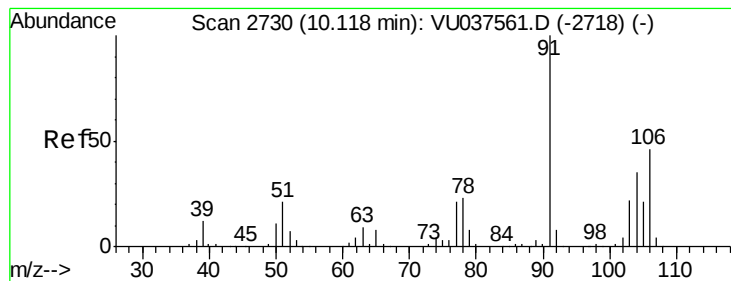
106 100

91 203.2 148.8 276.4



Abundance Ion 106.00 (105.70 to 106.70): VU037566.D (-2511) (-)





#54

o-xylene

Concen: 53.471 ug/L

RT: 10.12 min Scan# 2730

Delta R.T. 0.00 min

Lab File: VU037566.D

Acq: 03 Apr 2020 13:39

Instrument :

MSVOA_U

ClientSampleId :

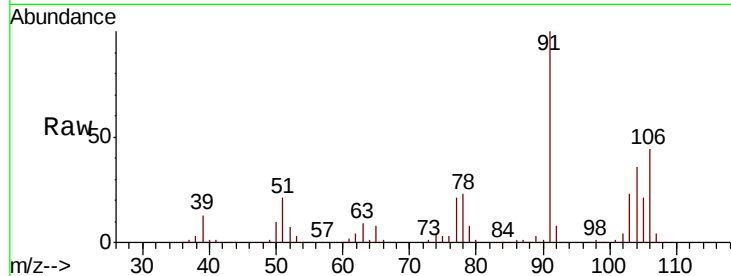
BFB35

Tot Ion:106 Resp: 104914

Ion Ratio Lower Upper

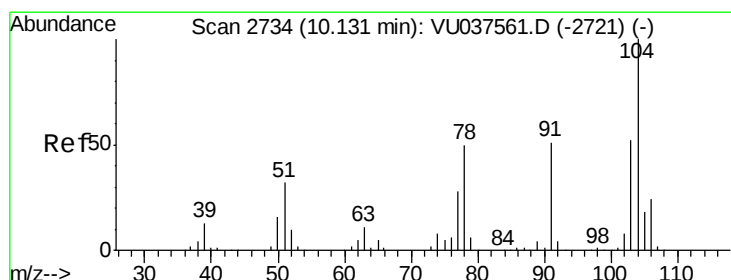
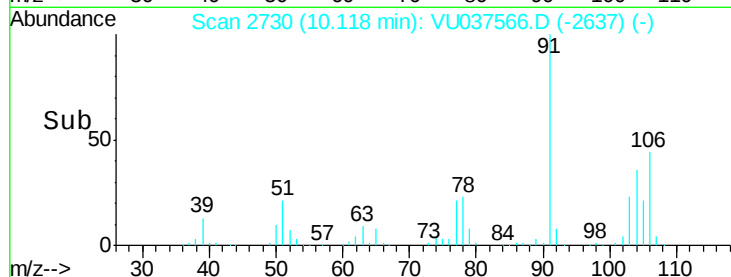
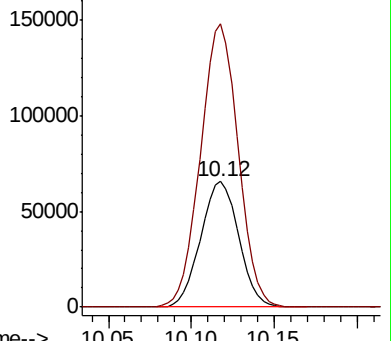
106 100

91 225.2 152.6 283.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 53.021 ug/L

RT: 10.13 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VU037566.D

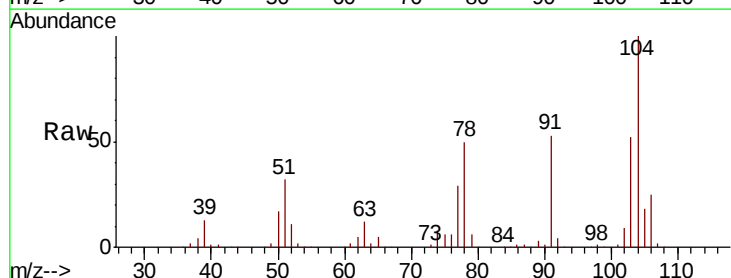
Acq: 03 Apr 2020 13:39

Tgt Ion:104 Resp: 184205

Ion Ratio Lower Upper

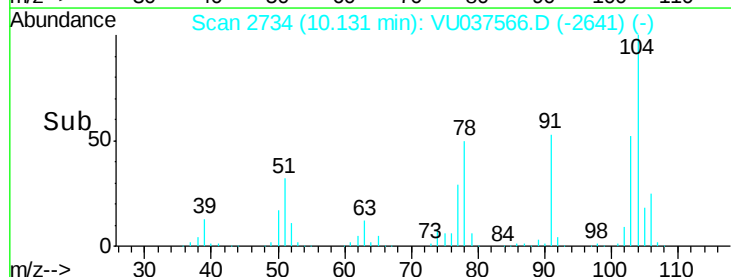
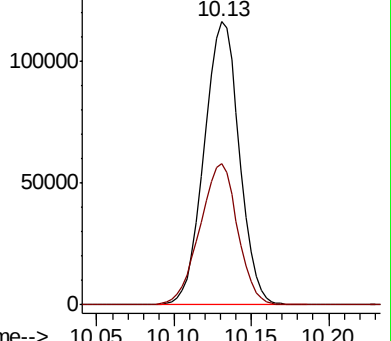
104 100

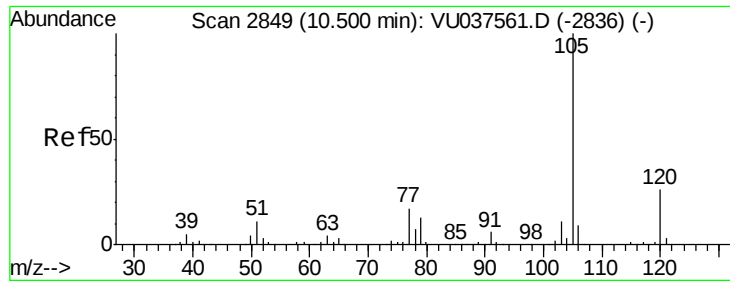
78 50.1 34.9 64.9



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 53.141 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. 0.00 min

Lab File: VU037566.D

Acq: 03 Apr 2020 13:39

Instrument :

MSVOA_U

ClientSampled :

BFB35

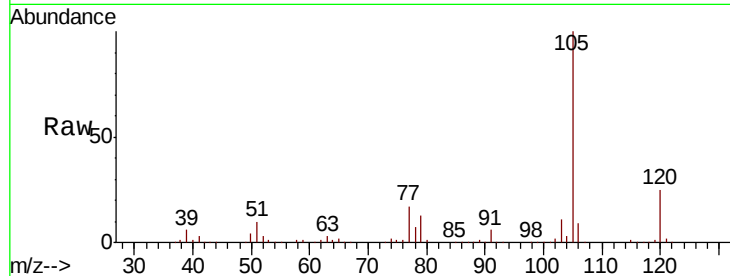
Tot Ion:105 Resp: 282699

Ion Ratio Lower Upper

105 100

120 25.4 20.7 31.1

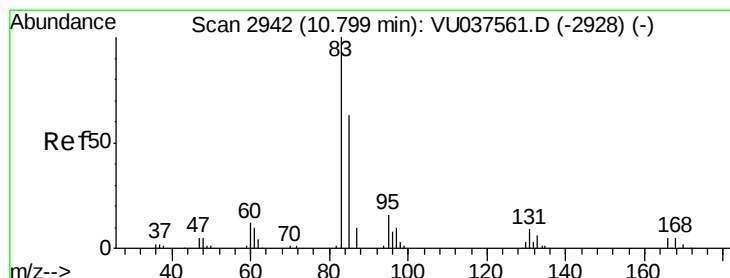
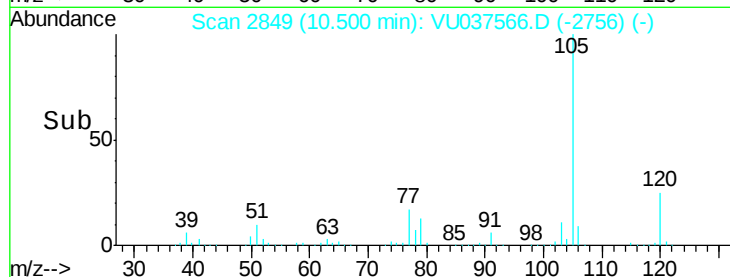
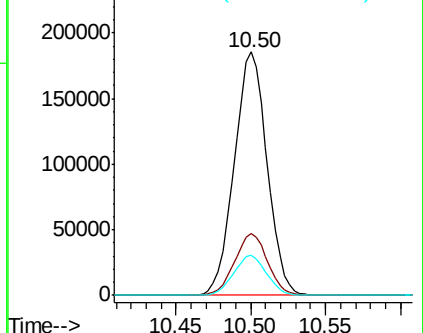
77 16.6 13.4 20.0



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: 53.693 ug/L

RT: 10.80 min Scan# 2942

Delta R.T. 0.00 min

Lab File: VU037566.D

Acq: 03 Apr 2020 13:39

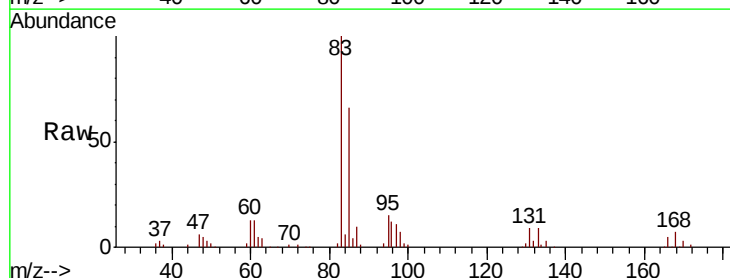
Tgt Ion: 83 Resp: 112296

Ion Ratio Lower Upper

83 100

85 65.8 44.2 82.2

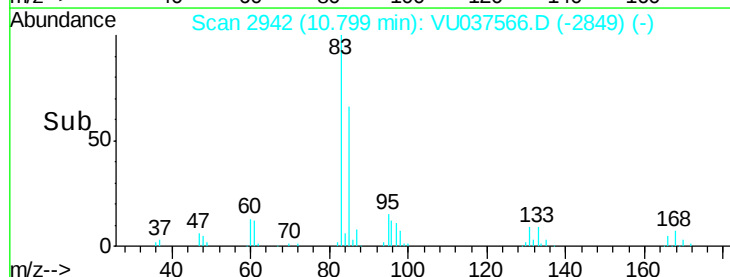
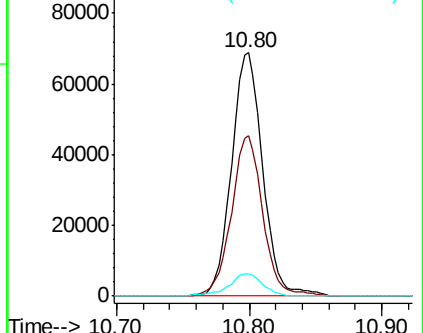
131 9.1 7.2 10.8

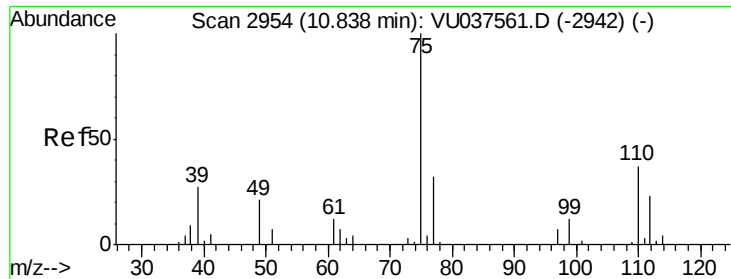


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

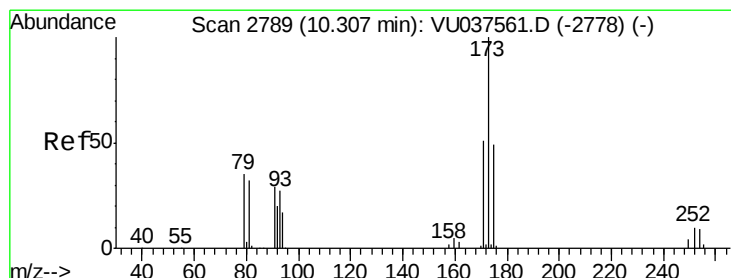
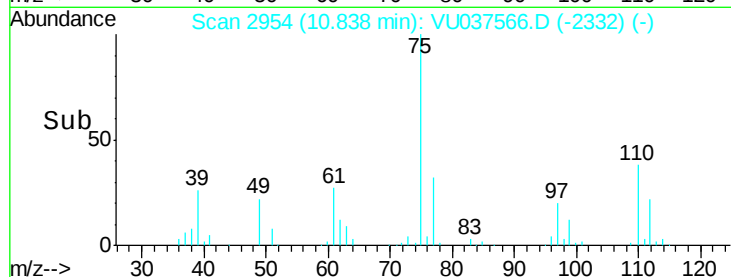
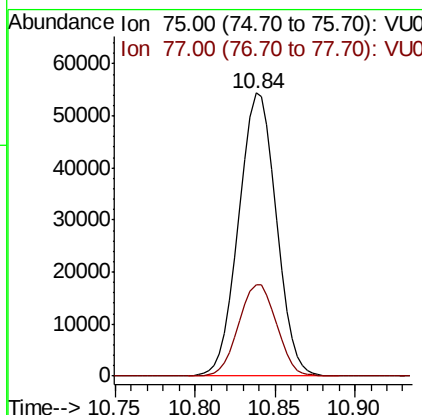
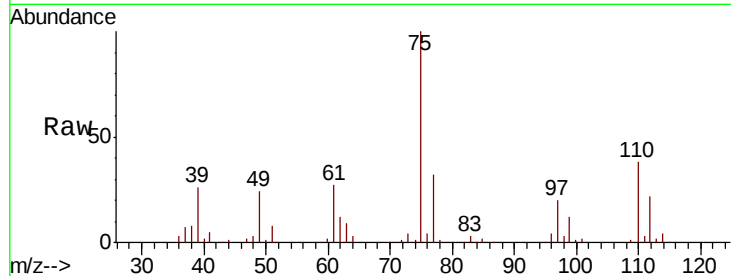




#59
 1,2,3-Trichloropropane
 Concen: 53.301 ug/L
 RT: 10.84 min Scan# 2954
 Delta R.T. 0.00 min
 Lab File: VU037566.D
 Acq: 03 Apr 2020 13:39

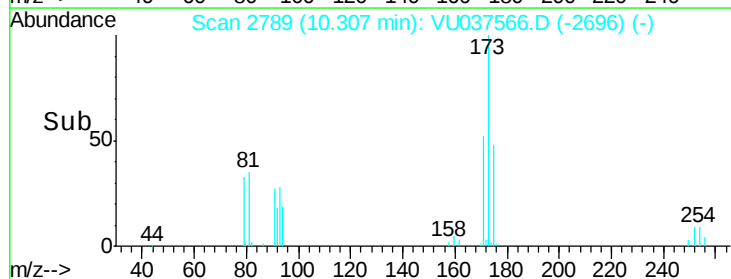
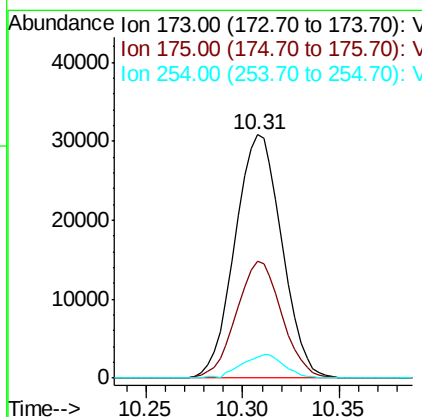
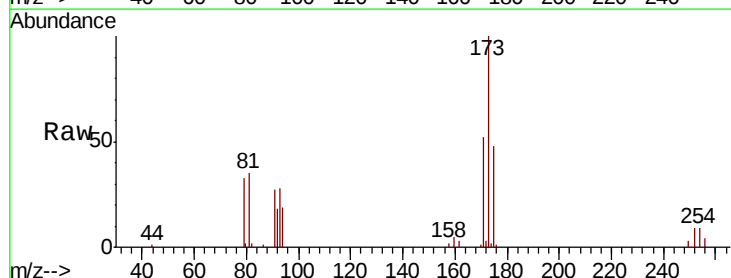
Instrument :
 MSVOA_U
 ClientSampleId :
 BFB35

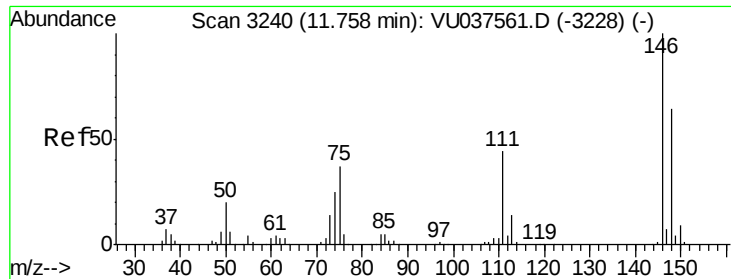
Tot Ion: 75 Resp: 87067
 Ion Ratio Lower Upper
 75 100
 77 32.8 25.5 38.3



#61
 Bromoform
 Concen: 55.427 ug/L
 RT: 10.31 min Scan# 2789
 Delta R.T. 0.00 min
 Lab File: VU037566.D
 Acq: 03 Apr 2020 13:39

Tgt Ion: 173 Resp: 51905
 Ion Ratio Lower Upper
 173 100
 175 46.7 38.6 58.0
 254 8.7 7.4 11.2





#62

1,3-Dichlorobenzene

Concen: 51.634 ug/L

RT: 11.76 min Scan# 3240

Delta R.T. 0.00 min

Lab File: VU037566.D

Acq: 03 Apr 2020 13:39

Instrument :

MSVOA_U

ClientSampled :

BFB35

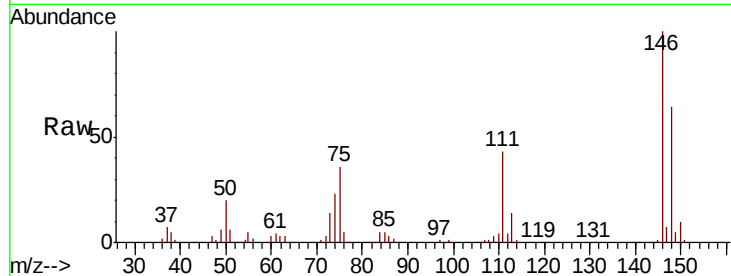
Tot Ion:146 Resp: 122131

Ion Ratio Lower Upper

146 100

111 42.6 31.1 57.7

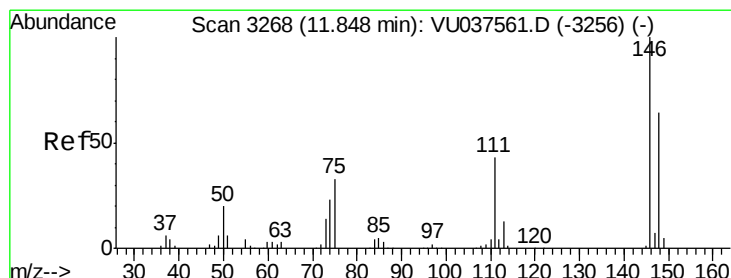
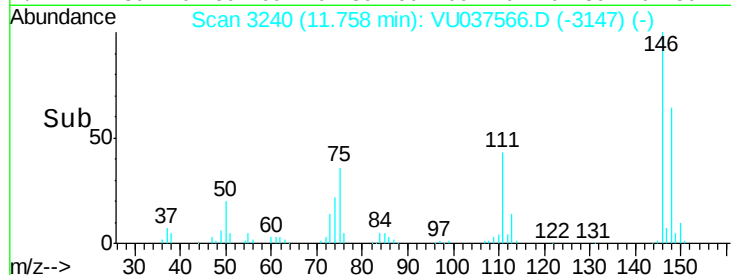
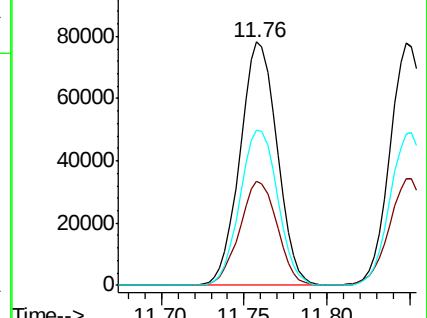
148 63.7 44.4 82.5



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



#63

1,4-Dichlorobenzene

Concen: 50.914 ug/L

RT: 11.85 min Scan# 3268

Delta R.T. 0.00 min

Lab File: VU037566.D

Acq: 03 Apr 2020 13:39

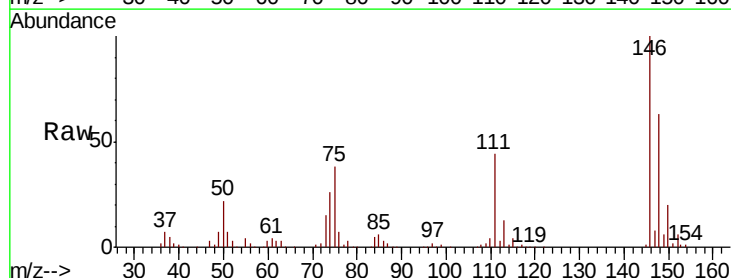
Tgt Ion:146 Resp: 121546

Ion Ratio Lower Upper

146 100

111 44.3 30.1 55.9

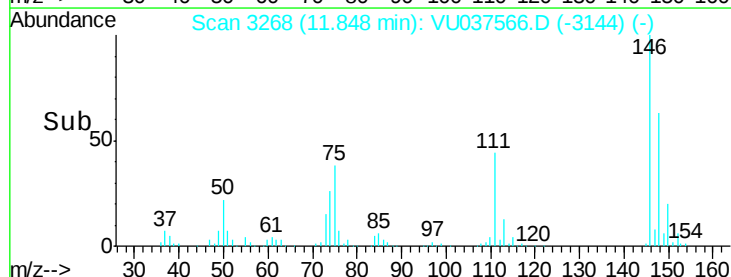
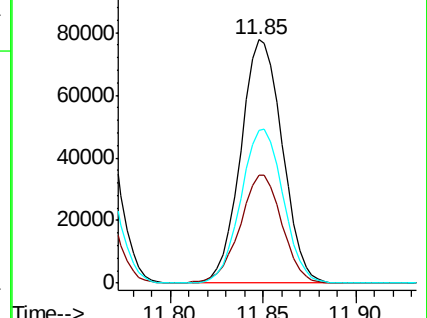
148 62.5 44.7 82.9

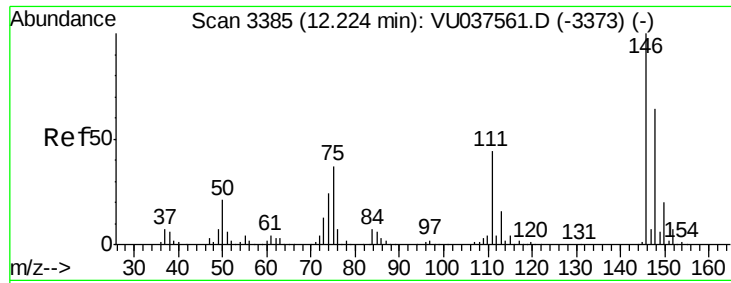


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 52.014 ug/L

RT: 12.23 min Scan# 3386

Delta R.T. 0.00 min

Lab File: VU037566.D

Acq: 03 Apr 2020 13:39

Instrument :

MSVOA_U

ClientSampled :

BFB35

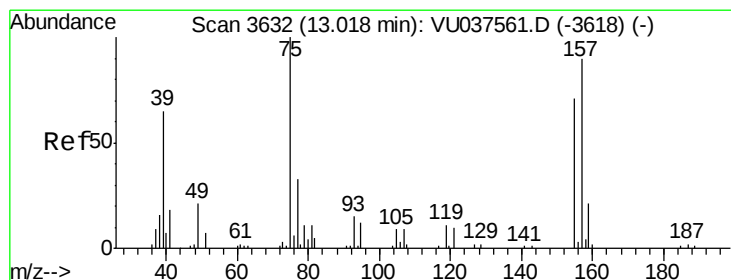
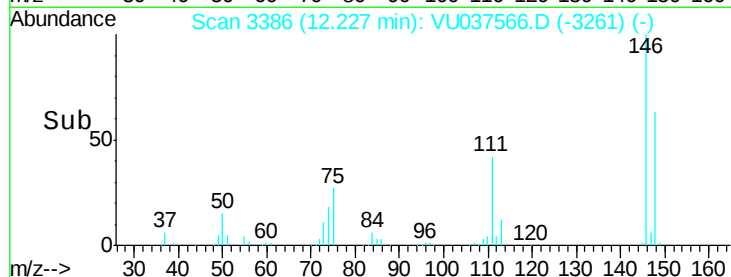
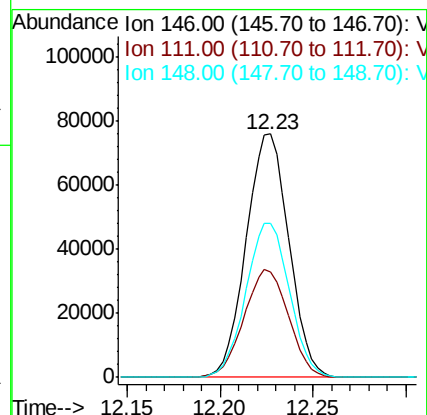
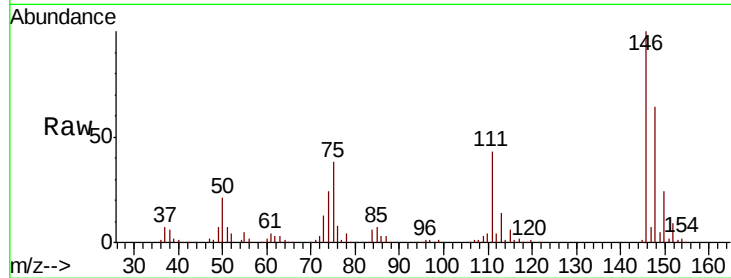
Tot Ion:146 Resp: 121819

Ion Ratio Lower Upper

146 100

111 43.2 35.6 53.4

148 63.5 51.0 76.6



#66

1,2-Dibromo-3-chloropropane

Concen: 50.999 ug/L

RT: 13.01 min Scan# 3631

Delta R.T. -0.00 min

Lab File: VU037566.D

Acq: 03 Apr 2020 13:39

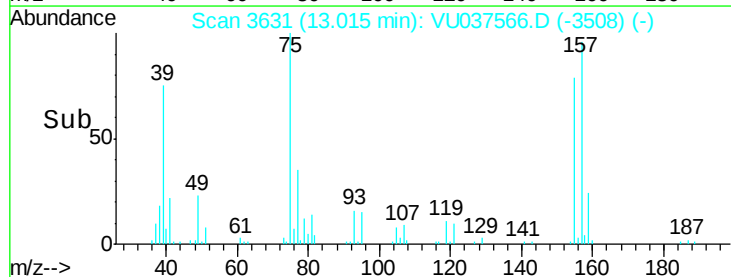
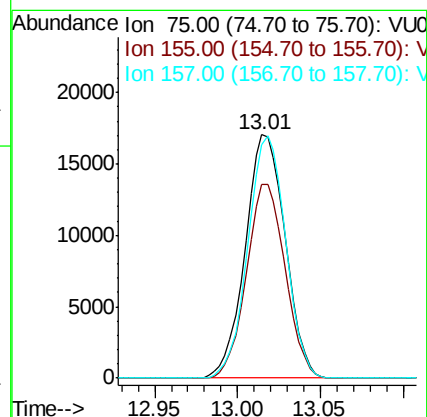
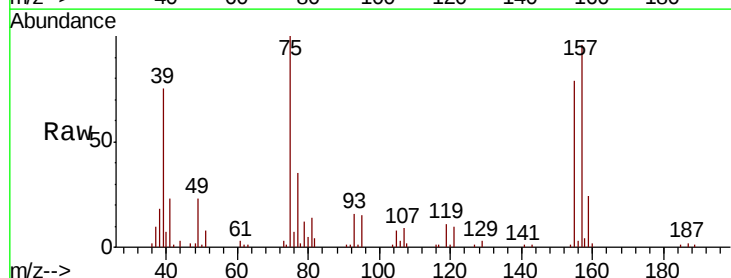
Tgt Ion: 75 Resp: 28650

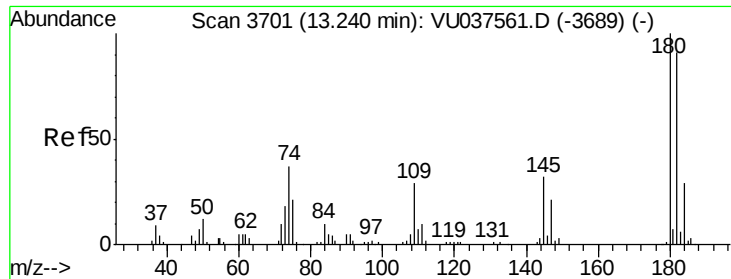
Ion Ratio Lower Upper

75 100

155 79.4 56.6 85.0

157 96.1 72.4 108.6

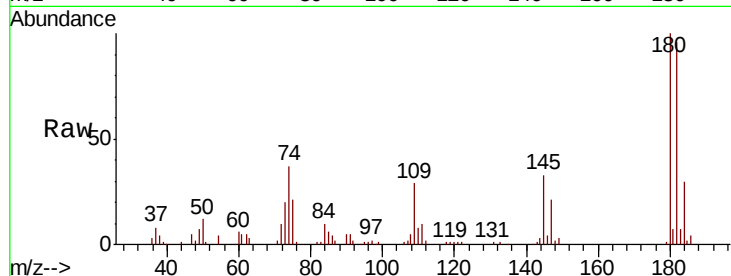




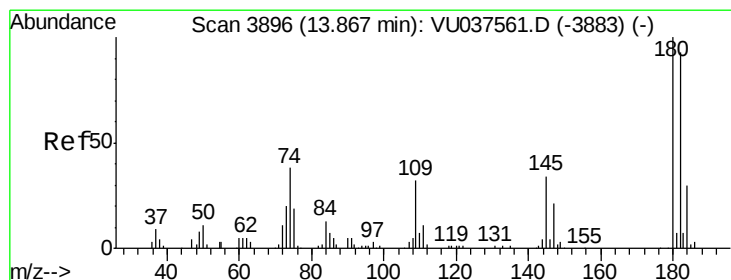
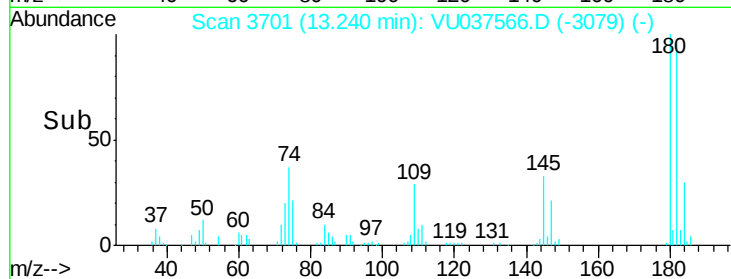
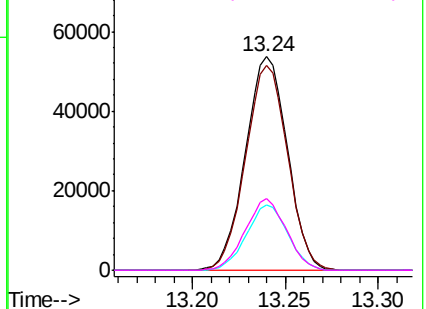
#67
 1,3,5-Trichlorobenzene
 Concen: 51.315 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. 0.00 min
 Lab File: VU037566.D
 Acq: 03 Apr 2020 13:39

Instrument :
 MSVOA_U
 ClientSampleId :
 BFB35

Tot Ion:180 Resp: 84248
 Ion Ratio Lower Upper
 180 100
 182 96.3 74.9 112.3
 184 30.0 23.6 35.4
 145 32.9 25.7 38.5

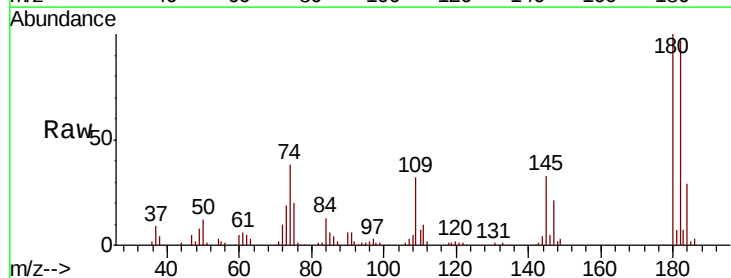


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

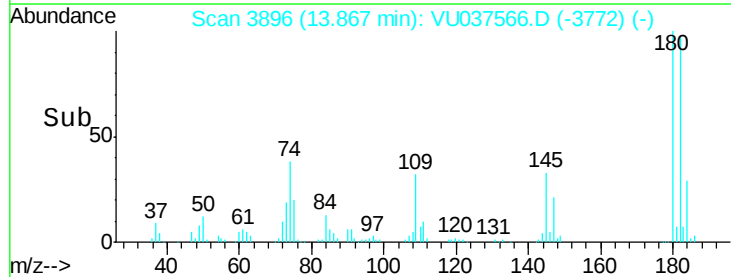
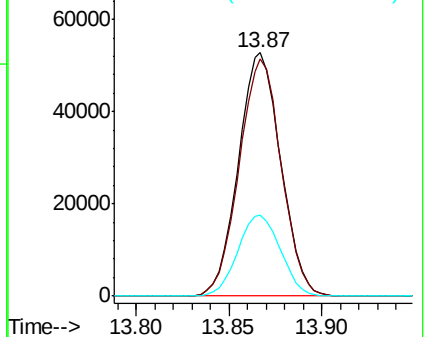


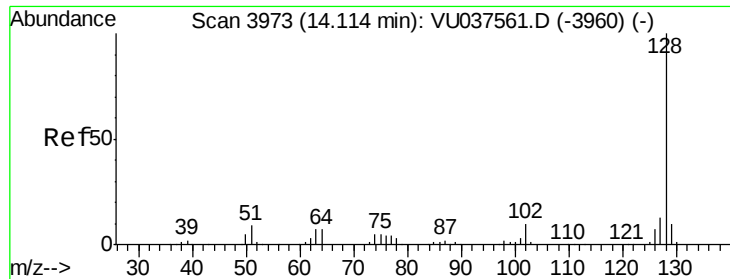
#68
 1,2,4-trichlorobenzene
 Concen: 53.465 ug/L
 RT: 13.87 min Scan# 3896
 Delta R.T. 0.00 min
 Lab File: VU037566.D
 Acq: 03 Apr 2020 13:39

Tgt Ion:180 Resp: 83680
 Ion Ratio Lower Upper
 180 100
 182 96.6 74.4 111.6
 145 33.5 26.9 40.3



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: 50.065 ug/L

RT: 14.11 min Scan# 3973

Delta R.T. 0.00 min

Lab File: VU037566.D

Acq: 03 Apr 2020 13:39

Instrument :

MSVOA_U

ClientSampleId :

BFB35

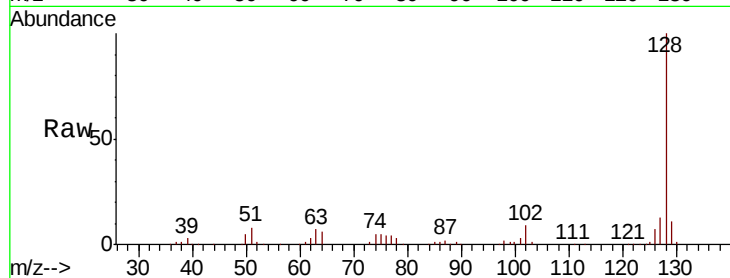
Tot Ion:128 Resp: 331971

Ion Ratio Lower Upper

128 100

127 12.8 10.2 15.4

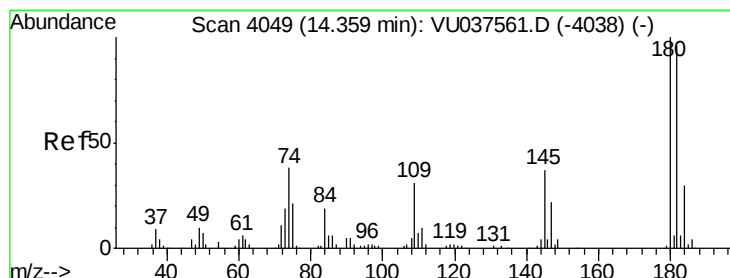
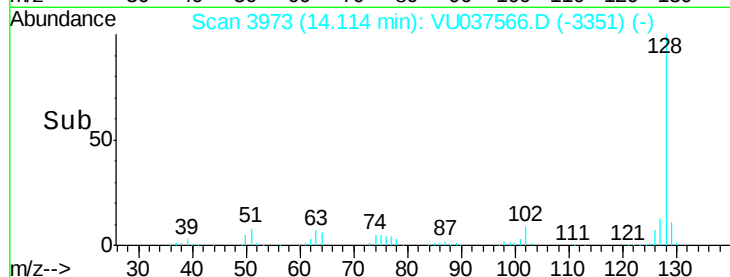
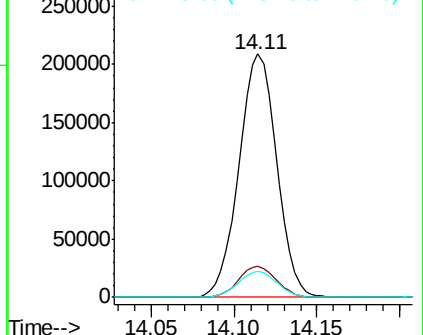
129 11.0 8.5 12.7



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: 52.479 ug/L

RT: 14.36 min Scan# 4050

Delta R.T. 0.00 min

Lab File: VU037566.D

Acq: 03 Apr 2020 13:39

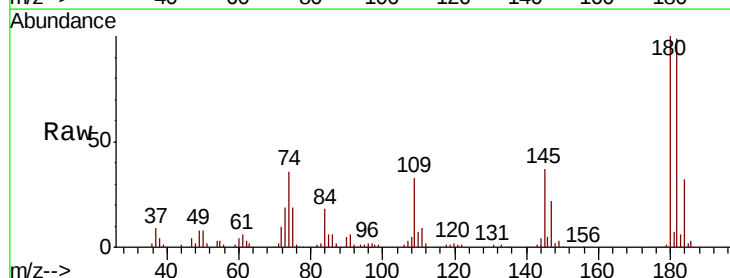
Tgt Ion:180 Resp: 82976

Ion Ratio Lower Upper

180 100

182 96.8 76.0 114.0

145 36.7 29.0 43.6



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

