

Data File : VU033510.D
Acq On : 30 Jul 2019 23:01
Operator : JC/SP
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05040

Quant Time: Jul 31 08:12:09 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM073119WMA.M
Quant Title : VOC Analysis
QLast Update : Wed Jul 31 08:02:52 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	322068	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	324449	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	175196	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	110073	47.01	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	94.02%
7) Chloroethane-d5	1.67	69	109725	54.61	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	109.22%
11) 1,1-Dichloroethene-d2	2.26	63	201418	47.39	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.78%
21) 2-Butanone-d5	4.15	46	155943	100.55	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	100.55%
24) Chloroform-d	4.62	84	190753	48.60	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.20%
26) 1,2-Dichloroethane-d4	5.29	65	120859	48.62	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.24%
32) Benzene-d6	5.32	84	384217	47.77	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.54%
36) 1,2-Dichloropropane-d6	6.31	67	120567	47.82	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	95.64%
41) Toluene-d8	7.55	98	365502	48.49	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.98%
43) trans-1,3-Dichloropropene-	7.83	79	58383	46.68	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.36%
47) 2-Hexanone-d5	8.29	63	120806	100.92	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	100.92%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	183035	47.08	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	94.16%
64) 1,2-Dichlorobenzene-d4	11.84	152	147515	45.98	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.96%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	151033	49.728 ug/L	99
3) Chloromethane	1.32	50	152474	49.840 ug/L	99
5) Vinyl chloride	1.40	62	164089	50.033 ug/L	98
6) Bromomethane	1.62	94	135355	46.776 ug/L	97
8) Chloroethane	1.69	64	107142	53.764 ug/L	95
9) Trichlorofluoromethane	1.87	101	216038	50.357 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	106921	49.162 ug/L	100
12) 1,1-Dichloroethene	2.27	96	102820	49.299 ug/L	96
13) Acetone	2.32	43	121472	76.554 ug/L	99
14) Carbon disulfide	2.46	76	321147	49.093 ug/L	100
15) Methyl Acetate	2.60	43	128560	50.891 ug/L	100
16) Methylene chloride	2.68	84	118205	49.618 ug/L	99
17) trans-1,2-Dichloroethene	2.96	96	108682	49.737 ug/L	100
18) Methyl tert-butyl Ether	2.98	73	334854	50.252 ug/L	99
19) 1,1-Dichloroethane	3.42	63	206725	50.402 ug/L	99
20) cis-1,2-Dichloroethene	4.20	96	122733	50.041 ug/L	96
22) 2-Butanone	4.24	43	191095	100.879 ug/L	99

Data File : VU033510.D
Acq On : 30 Jul 2019 23:01
Operator : JC/SP
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05040

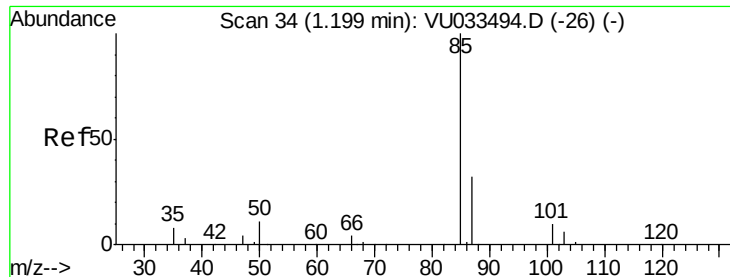
Quant Time: Jul 31 08:12:09 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM073119WMA.M
Quant Title : VOC Analysis
QLast Update : Wed Jul 31 08:02:52 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.52	128	63758	49.823	ug/L	96
25) Chloroform	4.65	83	218344	50.586	ug/L	98
27) 1,2-Dichloroethane	5.38	62	168260	50.626	ug/L	100
29) Cyclohexane	4.97	56	176347	49.830	ug/L	100
30) 1,1,1-Trichloroethane	4.89	97	184574	49.441	ug/L	99
31) Carbon tetrachloride	5.11	117	161591	49.705	ug/L	99
33) Benzene	5.37	78	467853	49.985	ug/L	100
34) Trichloroethene	6.16	95	118169	47.861	ug/L	99
35) Methylcyclohexane	6.40	83	190100	49.341	ug/L	99
37) 1,2-Dichloropropane	6.41	63	125731	50.184	ug/L	99
38) Bromodichloromethane	6.74	83	161427	49.842	ug/L	98
39) cis-1,3-Dichloropropene	7.25	75	187755	48.014	ug/L	99
40) 4-Methyl-2-pentanone	7.44	43	347003	100.316	ug/L	99
42) Toluene	7.62	91	505850	50.261	ug/L	100
44) trans-1,3-Dichloropropene	7.86	75	170039	48.116	ug/L	97
45) 1,1,2-Trichloroethane	8.05	97	117322	49.327	ug/L	99
46) Tetrachloroethene	8.21	164	97023	48.134	ug/L	97
48) 2-Hexanone	8.34	43	276983	99.063	ug/L	98
49) Dibromochloromethane	8.46	129	133510	49.338	ug/L	96
50) 1,2-Dibromoethane	8.57	107	130784	49.641	ug/L	99
51) Chlorobenzene	9.10	112	325254	49.362	ug/L	99
52) Ethylbenzene	9.23	91	546564	50.432	ug/L	100
53) m,p-Xylene	9.36	106	207915	49.973	ug/L	98
54) o-xylene	9.76	106	206787	51.237	ug/L	99
55) Styrene	9.77	104	353219	51.530	ug/L	100
56) Isopropylbenzene	10.15	105	529353	50.198	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.44	83	212373	49.506	ug/L	98
59) 1,2,3-Trichloropropane	10.48	75	162930	49.269	ug/L	100
61) Bromoform	9.94	173	103714	49.007	ug/L	100
62) 1,3-Dichlorobenzene	11.40	146	261099	48.527	ug/L	99
63) 1,4-Dichlorobenzene	11.49	146	264945	47.397	ug/L	99
65) 1,2-Dichlorobenzene	11.86	146	264524	48.623	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.64	75	49397	49.145	ug/L	99
67) 1,3,5-Trichlorobenzene	12.87	180	202861	46.734	ug/L	98
68) 1,2,4-trichlorobenzene	13.49	180	178580	48.147	ug/L	98
69) Naphthalene	13.73	128	517248	48.607	ug/L	99
70) 1,2,3-Trichlorobenzene	13.97	180	187557	48.082	ug/L	100

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

Quant Time: Jul 31 08:12:09 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM073119WMA.M
Quant Title : VOC Analysis
QLast Update : Wed Jul 31 08:02:52 2019
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 49.728 ug/L

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU033510.D

Acq: 30 Jul 2019 23:01

Instrument :

MSVOA_U

ClientSampleId :

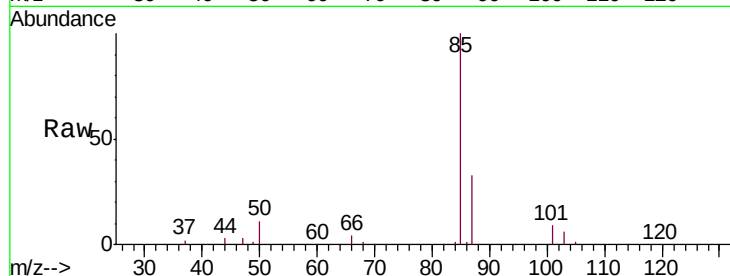
VSTD05040

Tgt Ion: 85 Resp: 151033

Ion Ratio Lower Upper

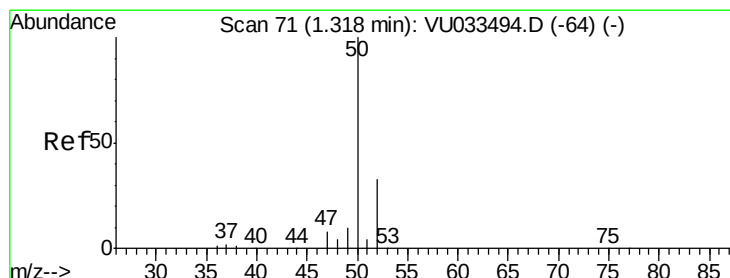
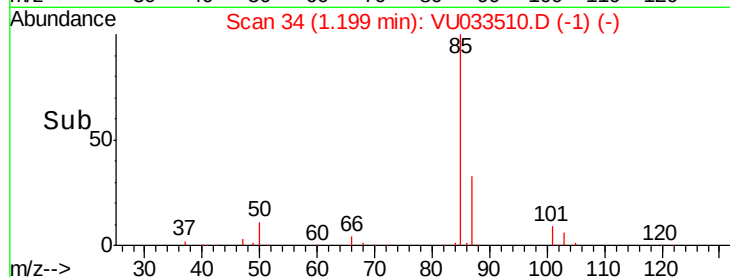
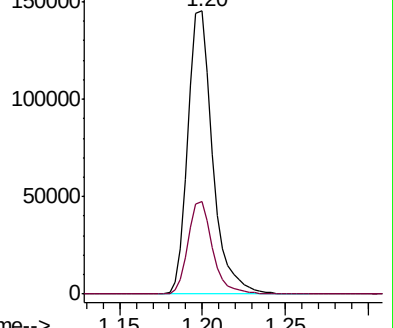
85 100

87 32.4 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VU033510.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU033510.D (-1) (-)



#3

Chloromethane

Concen: 49.840 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU033510.D

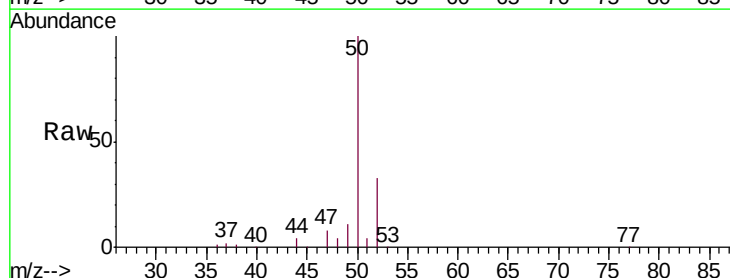
Acq: 30 Jul 2019 23:01

Tgt Ion: 50 Resp: 152474

Ion Ratio Lower Upper

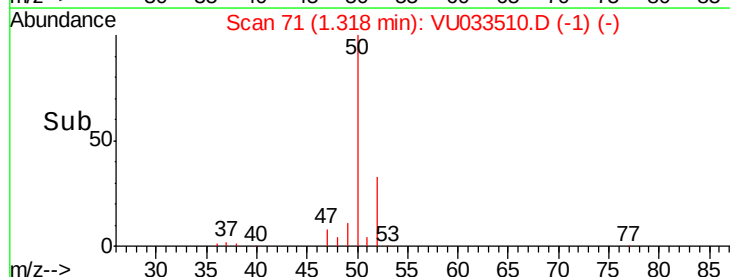
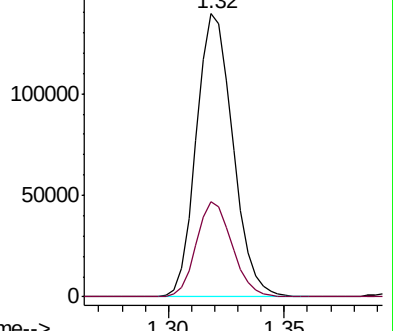
50 100

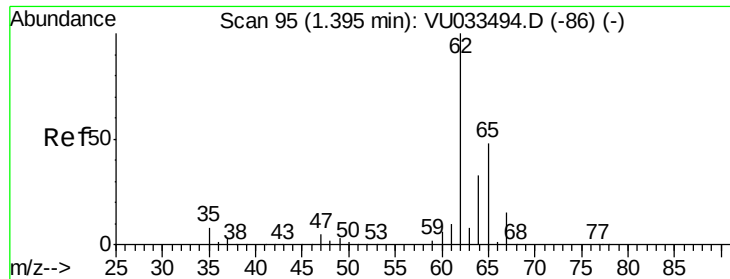
52 33.5 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VU033510.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU033510.D (-1) (-)





#5

Vinyl chloride

Concen: 50.033 ug/L

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU033510.D

Acq: 30 Jul 2019 23:01

Instrument :

MSVOA_U

ClientSampleId :

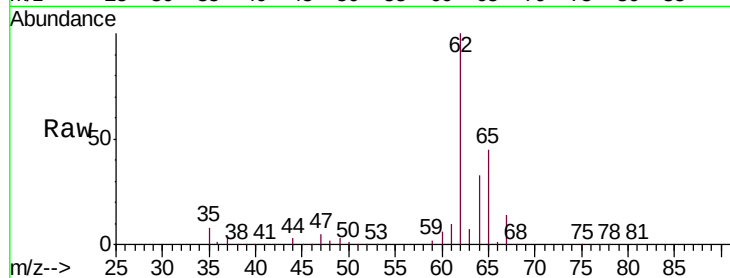
VSTD05040

Tgt Ion: 62 Resp: 164089

Ion Ratio Lower Upper

62 100

64 32.5 23.4 43.4



Abundance Ion 62.00 (61.70 to 62.70): VU033510.D (-86) (-)

Ion 64.00 (63.70 to 64.70): VU033510.D (-86) (-)

1.40

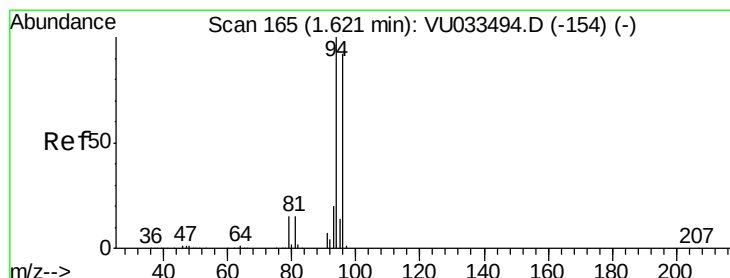
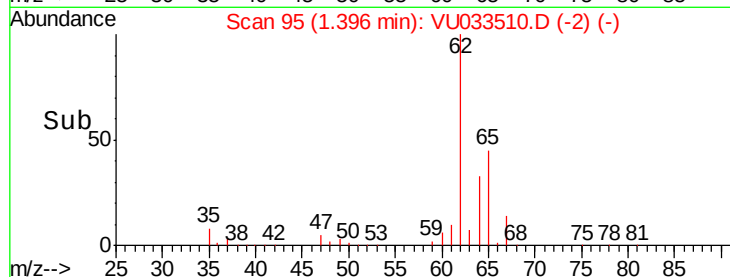
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 46.776 ug/L

RT: 1.62 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU033510.D

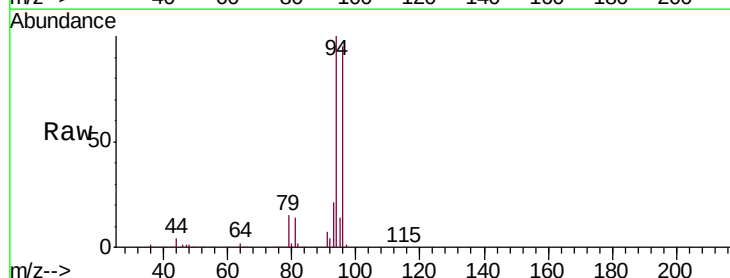
Acq: 30 Jul 2019 23:01

Tgt Ion: 94 Resp: 135355

Ion Ratio Lower Upper

94 100

96 94.8 64.4 119.6



Abundance Ion 94.00 (93.70 to 94.70): VU033510.D (-154) (-)

Ion 96.00 (95.70 to 96.70): VU033510.D (-154) (-)

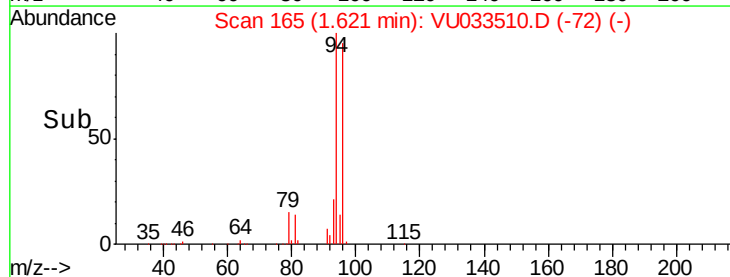
1.62

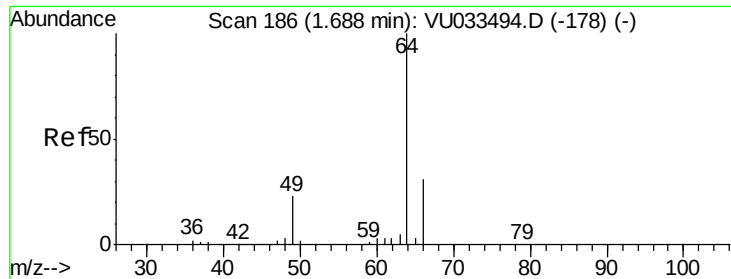
100000

50000

0

Time-->





#8

Chloroethane

Concen: 53.764 ug/L

RT: 1.69 min Scan# 186

Delta R.T. 0.00 min

Lab File: VU033510.D

Acq: 30 Jul 2019 23:01

Instrument :

MSVOA_U

ClientSampleId :

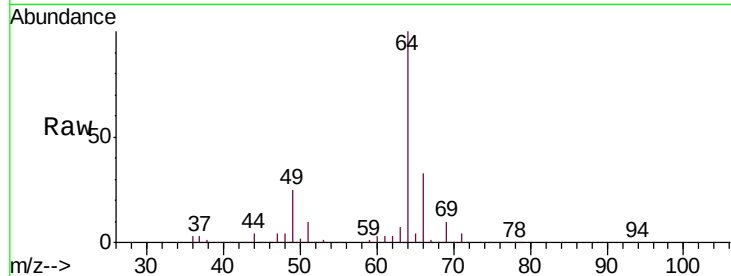
VSTD05040

Tgt Ion: 64 Resp: 107142

Ion Ratio Lower Upper

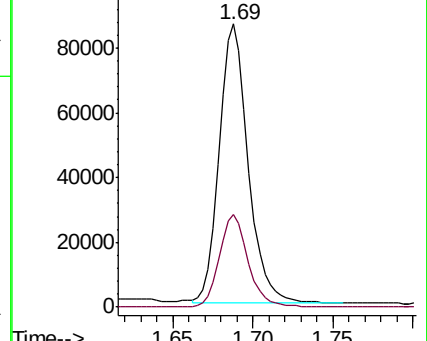
64 100

66 32.8 21.1 39.3

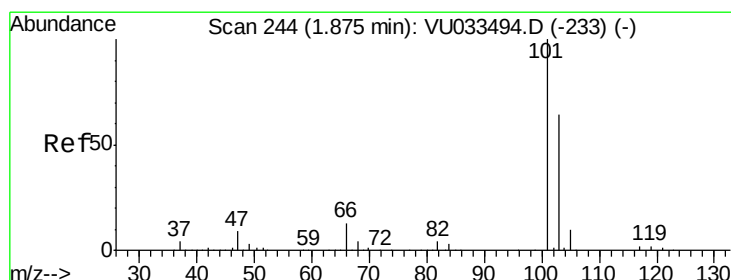
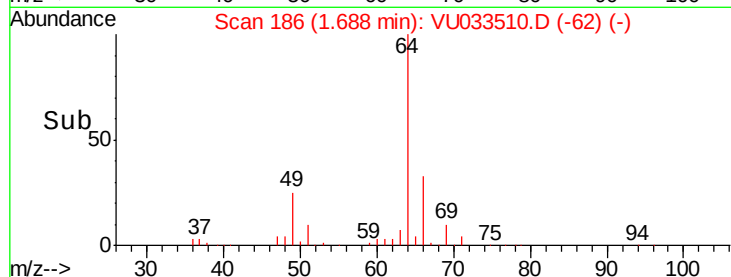


Abundance Ion 64.00 (63.70 to 64.70): VU033510.D (-178) (-)

Ion 66.00 (65.70 to 66.70): VU033510.D (-178) (-)



Time-->



#9

Trichlorofluoromethane

Concen: 50.357 ug/L

RT: 1.87 min Scan# 244

Delta R.T. 0.00 min

Lab File: VU033510.D

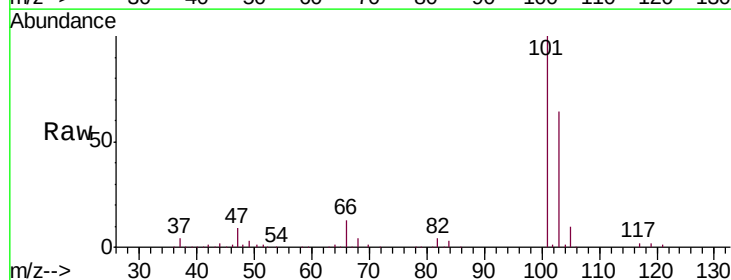
Acq: 30 Jul 2019 23:01

Tgt Ion: 101 Resp: 216038

Ion Ratio Lower Upper

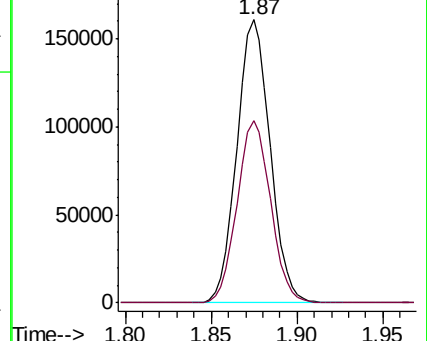
101 100

103 64.9 51.6 77.4

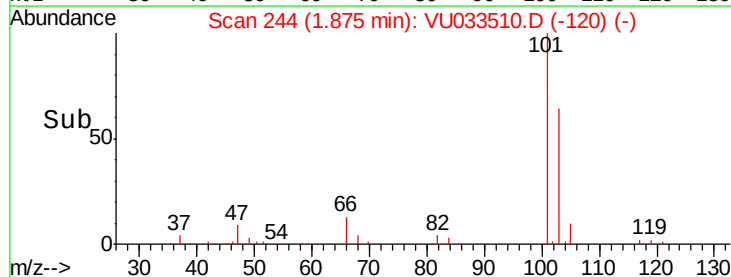


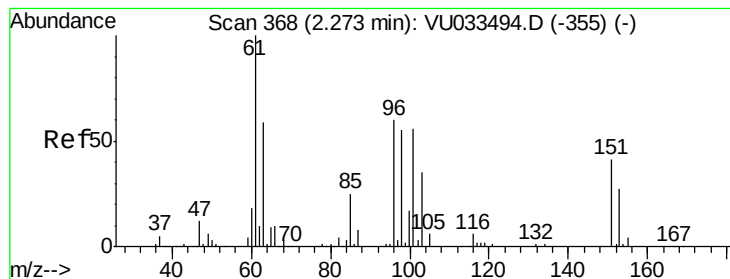
Abundance Ion 101.00 (100.70 to 101.70): VU033510.D (-233) (-)

Ion 103.00 (102.70 to 103.70): VU033510.D (-233) (-)



Time-->





#10

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

Concen: 49.162 ug/L

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU033510.D

Acq: 30 Jul 2019 23:01

Instrument :

MSVOA_U

ClientSampleId :

VSTD05040

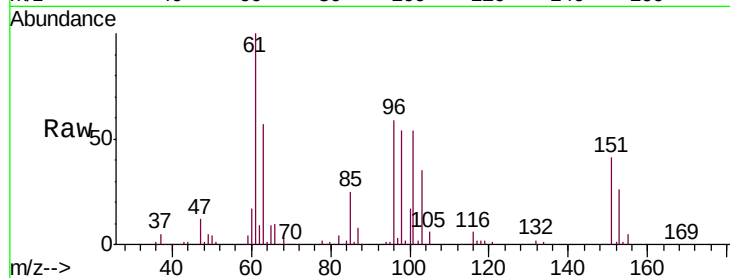
Tgt Ion: 101 Resp: 106921

Ion Ratio Lower Upper

101 100

85 44.2 35.8 53.8

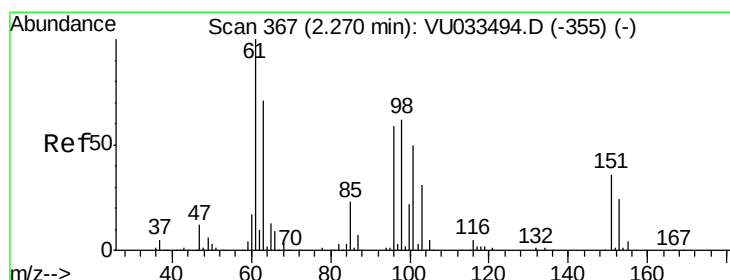
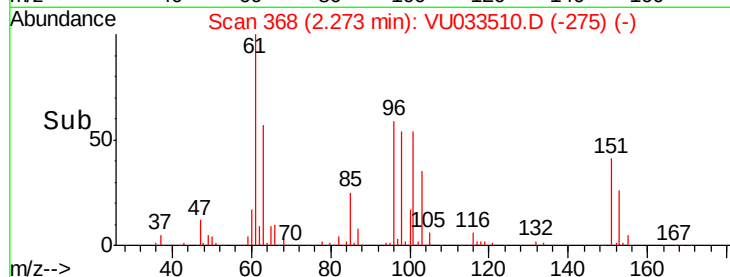
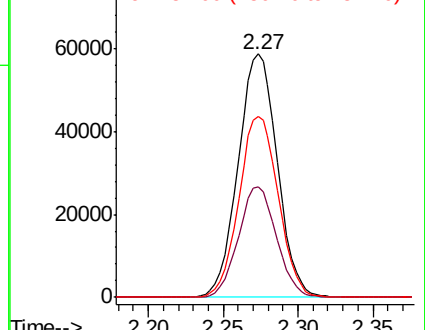
151 74.9 60.1 90.1



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: 49.299 ug/L

RT: 2.27 min Scan# 367

Delta R.T. 0.00 min

Lab File: VU033510.D

Acq: 30 Jul 2019 23:01

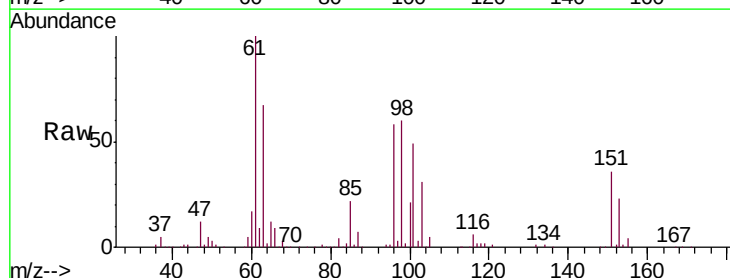
Tgt Ion: 96 Resp: 102820

Ion Ratio Lower Upper

96 100

61 173.5 119.3 221.5

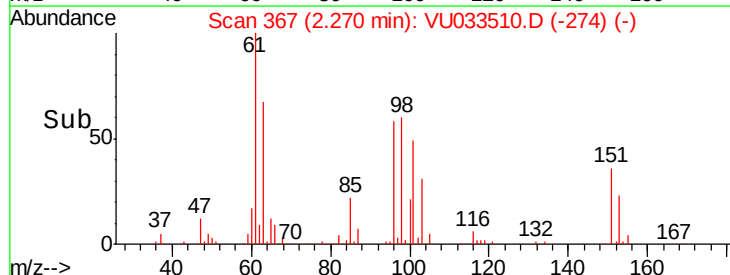
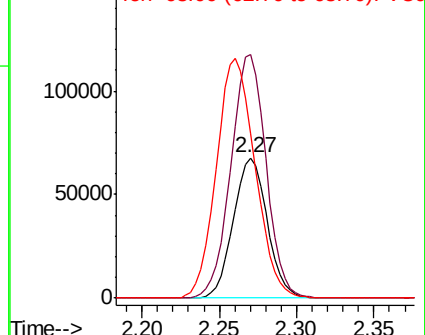
63 116.9 86.6 160.8

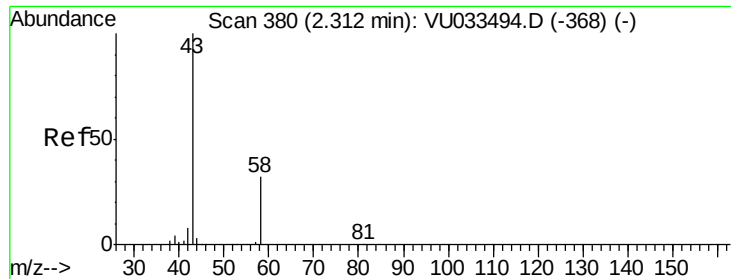


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0

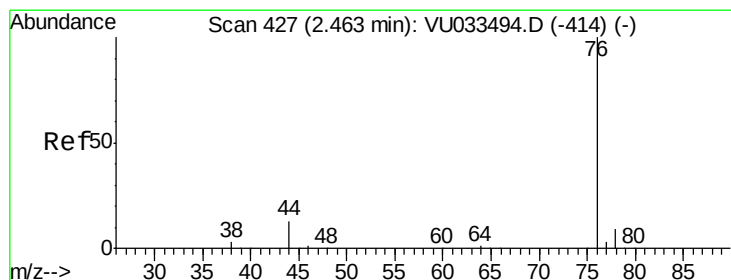
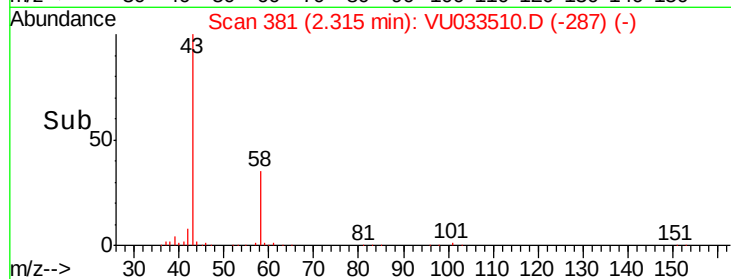
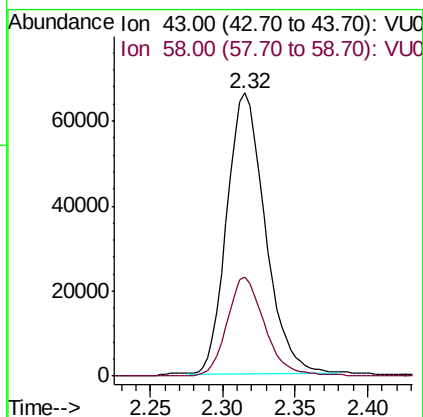
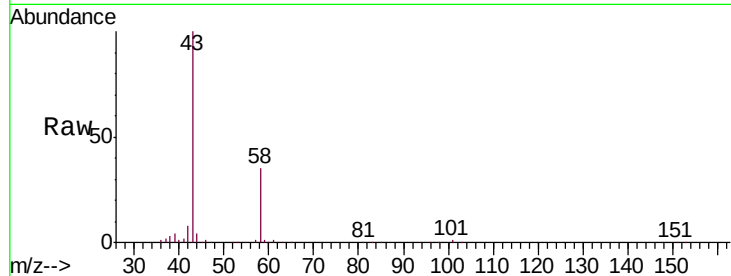




#13
Acetone
Concen: 76.554 ug/L
RT: 2.32 min Scan# 381
Delta R.T. 0.00 min
Lab File: VU033510.D
Acq: 30 Jul 2019 23:01

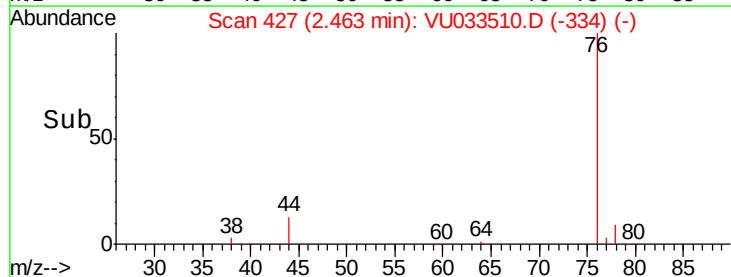
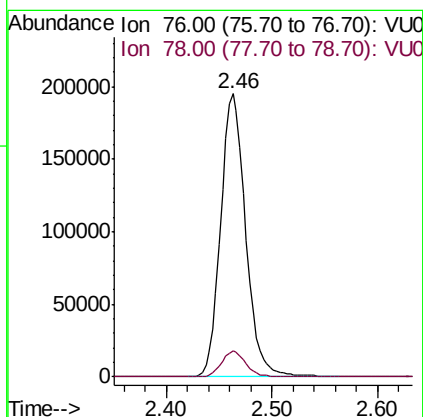
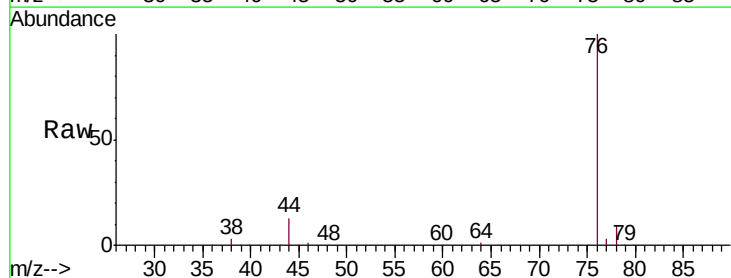
Instrument :
MSVOA_U
ClientSampleId :
VSTD05040

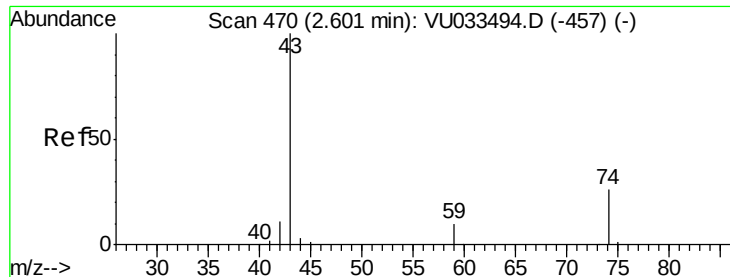
Tgt Ion: 43 Resp: 121472
Ion Ratio Lower Upper
43 100
58 33.9 0.0 66.2



#14
Carbon disulfide
Concen: 49.093 ug/L
RT: 2.46 min Scan# 427
Delta R.T. 0.00 min
Lab File: VU033510.D
Acq: 30 Jul 2019 23:01

Tgt Ion: 76 Resp: 321147
Ion Ratio Lower Upper
76 100
78 9.0 7.4 11.0

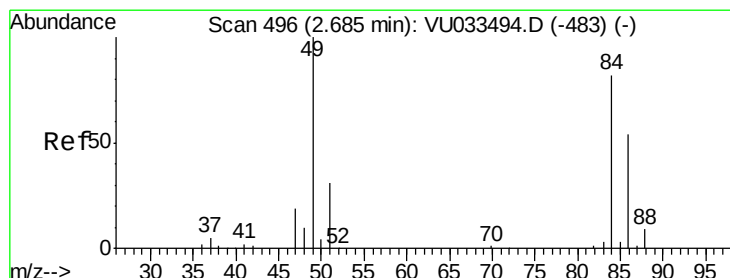
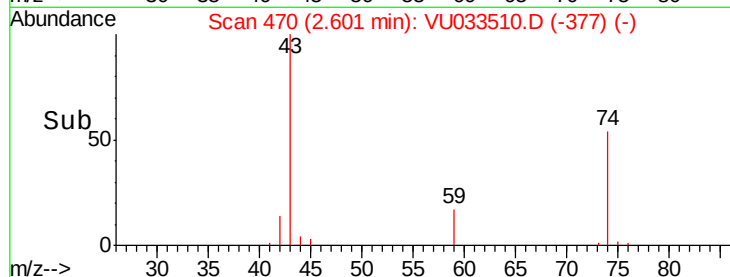
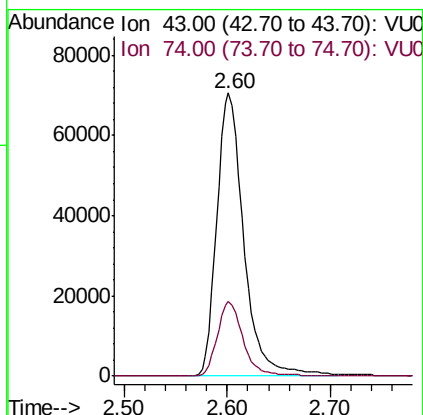
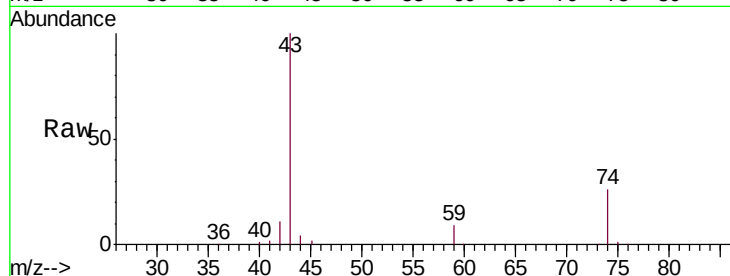




#15
Methyl Acetate
Concen: 50.891 ug/L
RT: 2.60 min Scan# 470
Delta R.T. 0.00 min
Lab File: VU033510.D
Acq: 30 Jul 2019 23:01

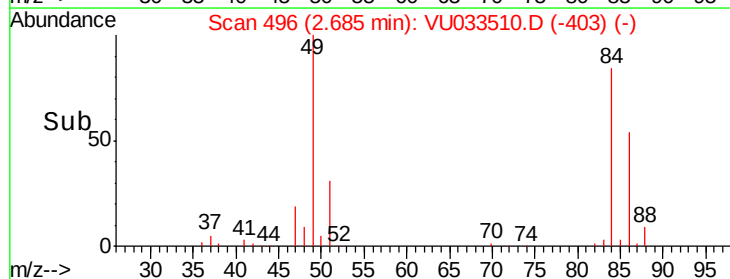
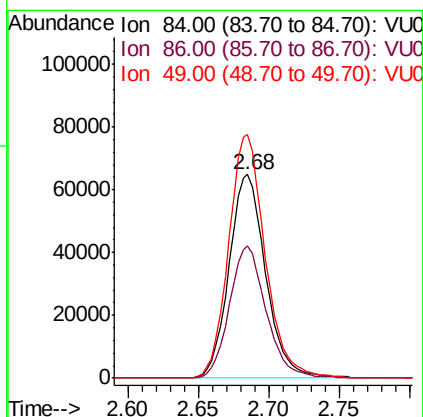
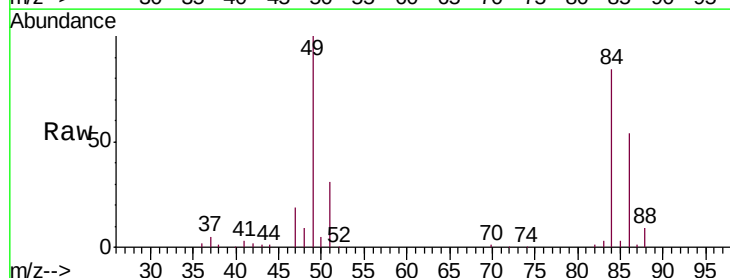
Instrument :
MSVOA_U
ClientSampleId :
VSTD05040

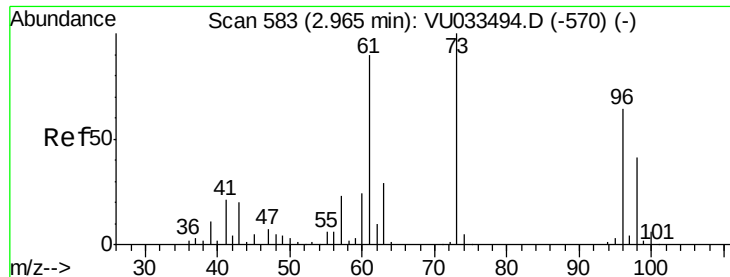
Tgt Ion: 43 Resp: 128560
Ion Ratio Lower Upper
43 100
74 24.9 20.1 30.1



#16
Methylene chloride
Concen: 49.618 ug/L
RT: 2.68 min Scan# 496
Delta R.T. 0.00 min
Lab File: VU033510.D
Acq: 30 Jul 2019 23:01

Tgt Ion: 84 Resp: 118205
Ion Ratio Lower Upper
84 100
86 64.8 45.7 84.9
49 119.6 85.0 158.0

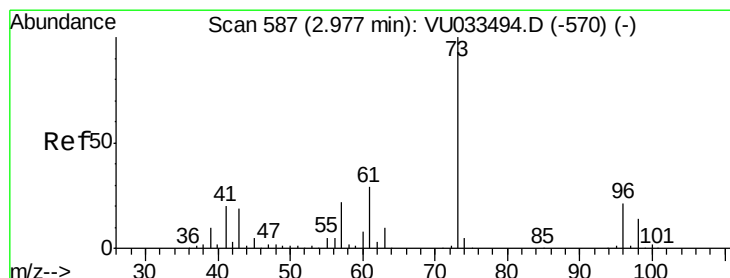
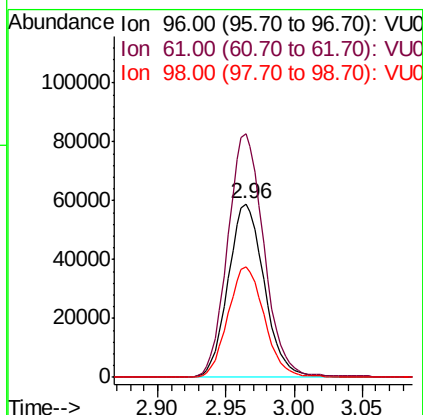
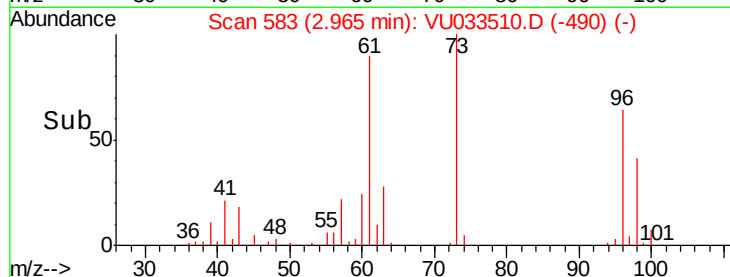
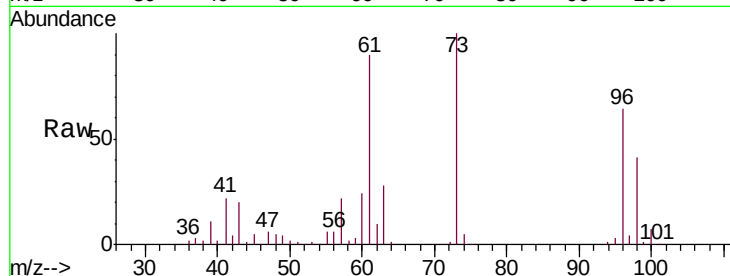




#17
trans-1,2-Dichloroethene
Concen: 49.737 ug/L
RT: 2.96 min Scan# 583
Delta R.T. 0.00 min
Lab File: VU033510.D
Acq: 30 Jul 2019 23:01

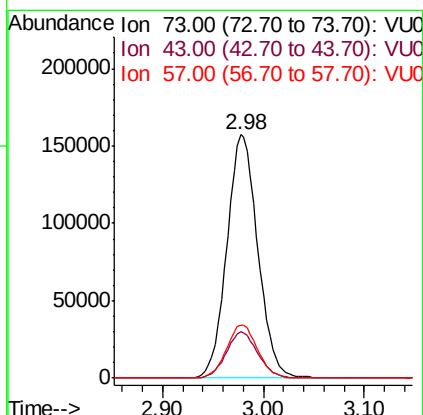
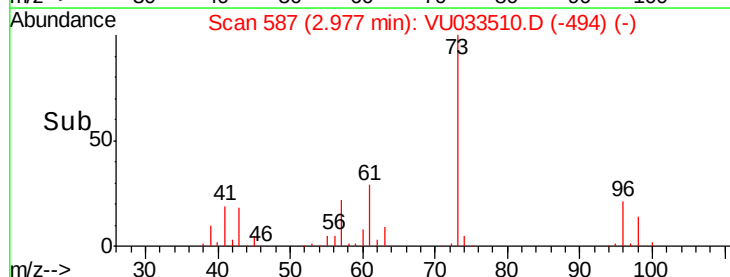
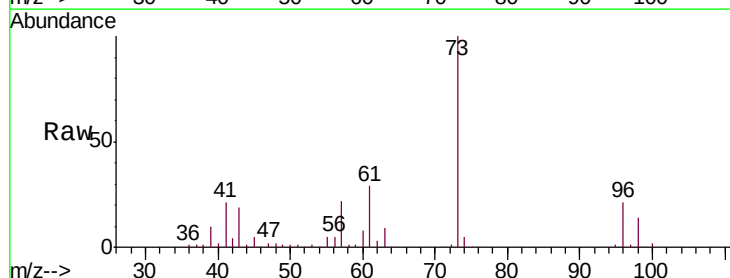
Instrument :
MSVOA_U
ClientSampleId :
VSTD05040

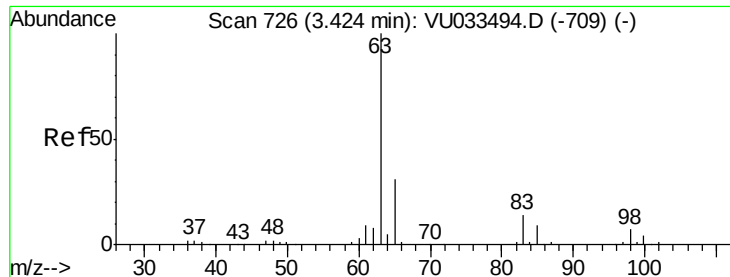
Tgt Ion: 96 Resp: 108682
Ion Ratio Lower Upper
96 100
61 140.5 98.3 182.5
98 63.6 44.3 82.3



#18
Methyl tert-butyl Ether
Concen: 50.252 ug/L
RT: 2.98 min Scan# 587
Delta R.T. 0.00 min
Lab File: VU033510.D
Acq: 30 Jul 2019 23:01

Tgt Ion: 73 Resp: 334854
Ion Ratio Lower Upper
73 100
43 19.6 15.4 23.2
57 22.0 17.4 26.2

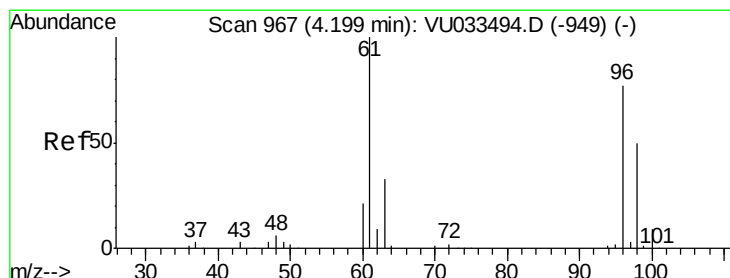
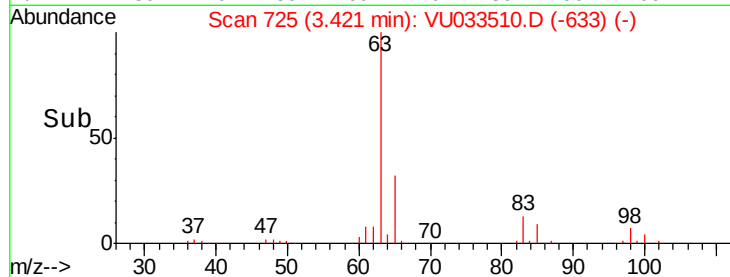
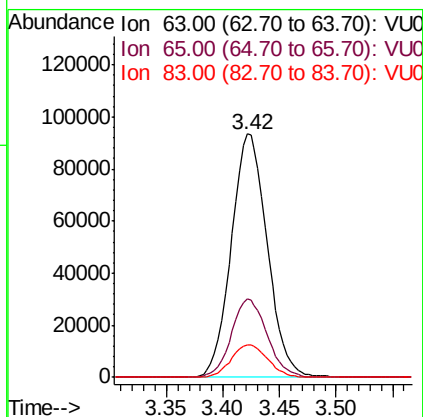
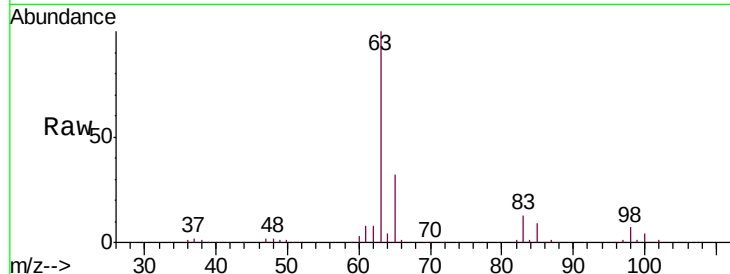




#19
 1,1-Dichloroethane
 Concen: 50.402 ug/L
 RT: 3.42 min Scan# 725
 Delta R.T. -0.00 min
 Lab File: VU033510.D
 Acq: 30 Jul 2019 23:01

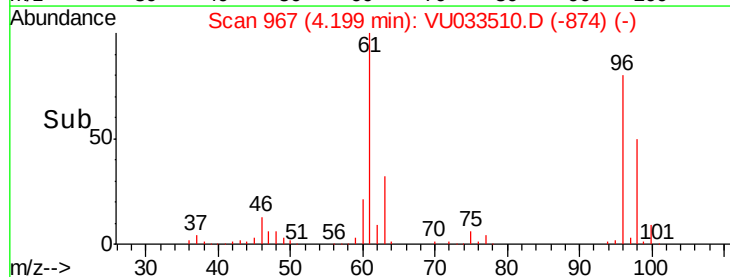
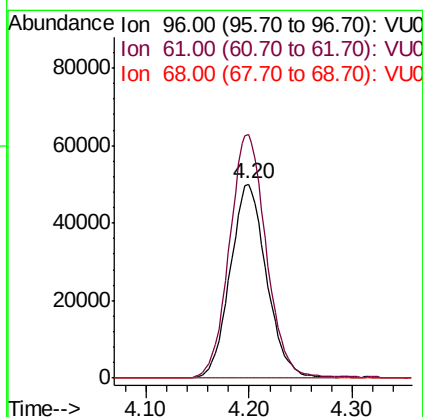
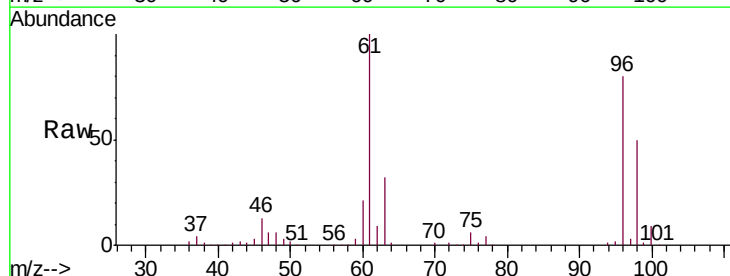
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05040

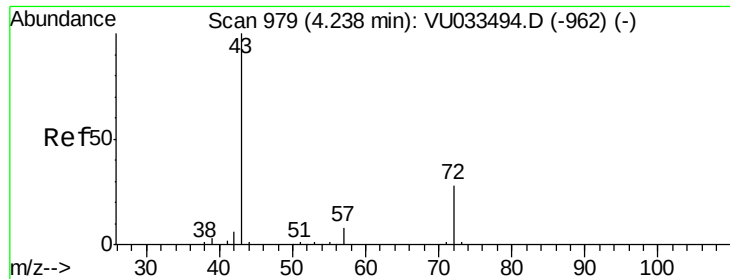
Tgt Ion: 63 Resp: 206725
 Ion Ratio Lower Upper
 63 100
 65 32.0 22.0 40.8
 83 13.4 9.5 17.7



#20
 cis-1,2-Dichloroethene
 Concen: 50.041 ug/L
 RT: 4.20 min Scan# 967
 Delta R.T. 0.00 min
 Lab File: VU033510.D
 Acq: 30 Jul 2019 23:01

Tgt Ion: 96 Resp: 122733
 Ion Ratio Lower Upper
 96 100
 61 125.6 91.3 169.6
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 100.879 ug/L

RT: 4.24 min Scan# 979

Delta R.T. 0.00 min

Lab File: VU033510.D

Acq: 30 Jul 2019 23:01

Instrument :

MSVOA_U

ClientSampleId :

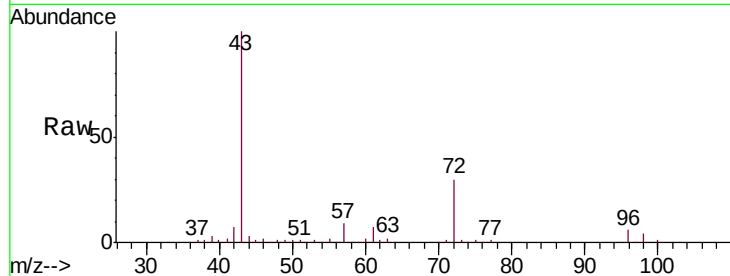
VSTD05040

Tgt Ion: 43 Resp: 191095

Ion Ratio Lower Upper

43 100

72 27.7 14.2 42.6



Abundance Ion 43.00 (42.70 to 43.70): VU033510.D (-886) (-)

Ion 72.00 (71.70 to 72.70): VU033510.D (-886) (-)

4.24

60000

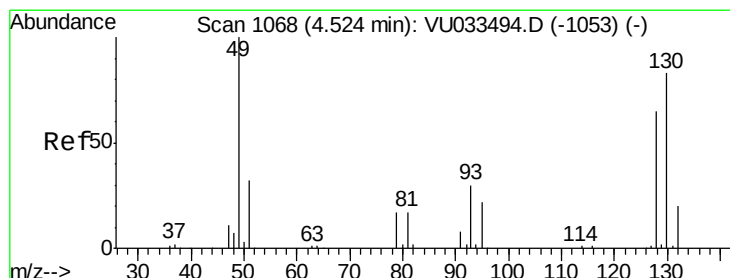
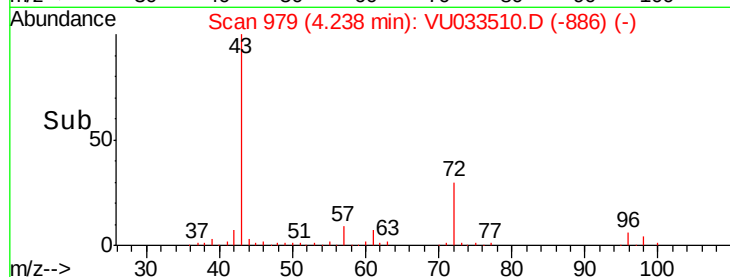
40000

20000

0

Time-->

4.10 4.20 4.30 4.40



#23

Bromochloromethane

Concen: 49.823 ug/L

RT: 4.52 min Scan# 1068

Delta R.T. 0.00 min

Lab File: VU033510.D

Acq: 30 Jul 2019 23:01

Tgt Ion: 128 Resp: 63758

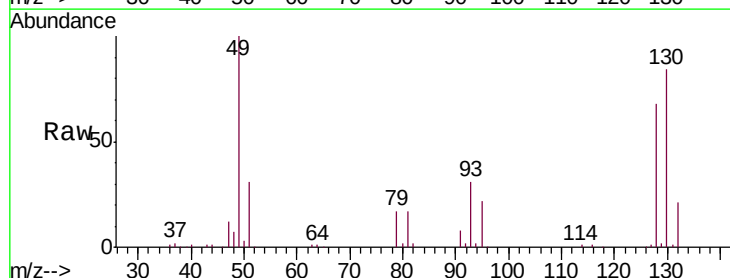
Ion Ratio Lower Upper

128 100

49 147.9 108.4 201.2

130 124.2 89.7 166.5

51 46.0 38.9 58.3



Abundance Ion 128.00 (127.70 to 128.70): VU033510.D (-975) (-)

Ion 49.00 (48.70 to 49.70): VU033510.D (-975) (-)

Ion 130.00 (129.70 to 130.70): VU033510.D (-975) (-)

Ion 51.00 (50.70 to 51.70): VU033510.D (-975) (-)

4.52

60000

50000

40000

30000

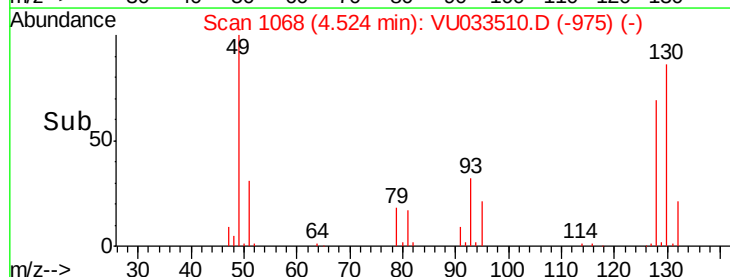
20000

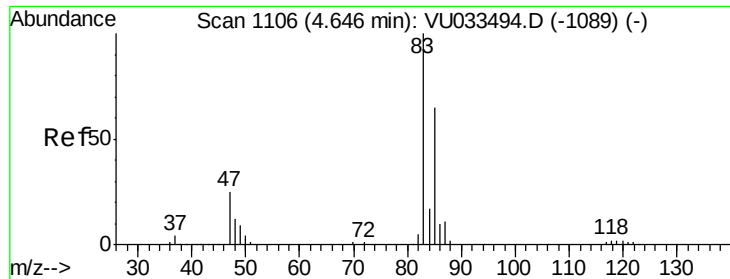
10000

0

Time-->

4.45 4.50 4.55 4.60

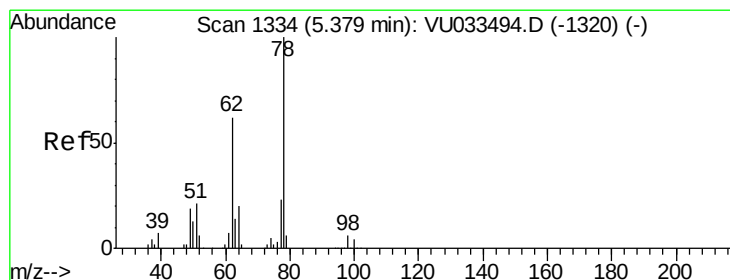
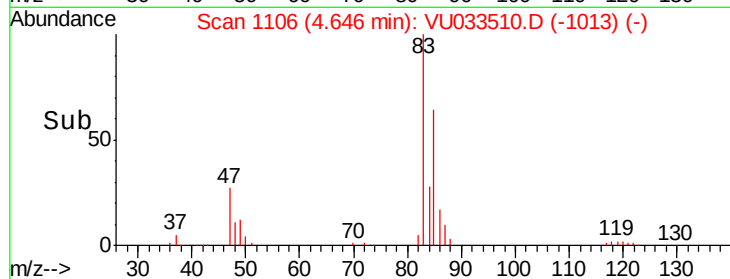
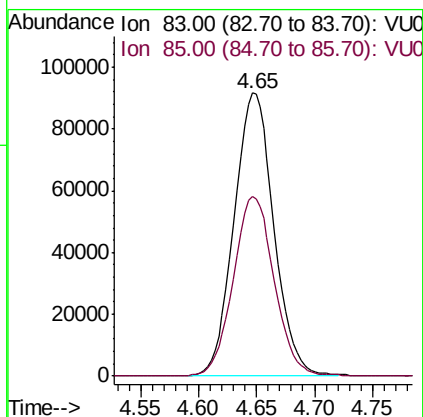
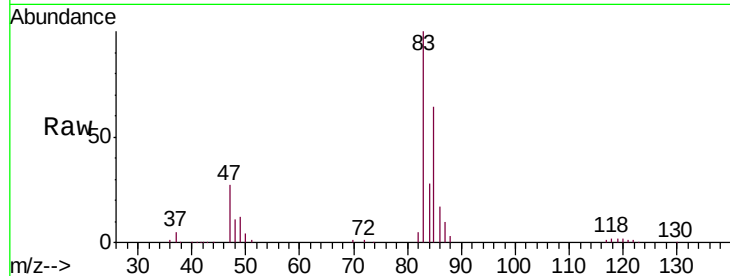




#25
Chloroform
Concen: 50.586 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. 0.00 min
Lab File: VU033510.D
Acq: 30 Jul 2019 23:01

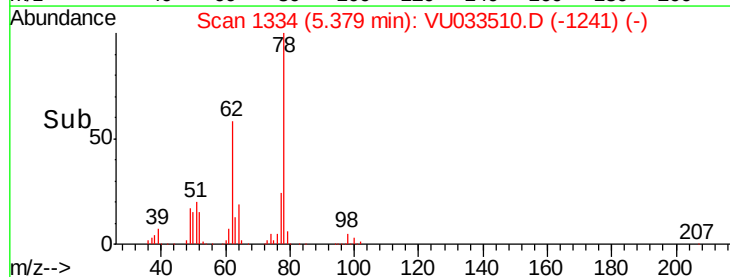
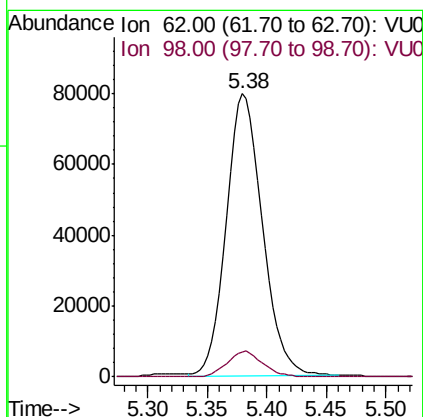
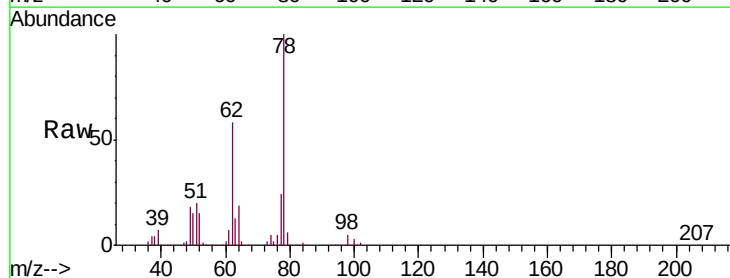
Instrument :
MSVOA_U
ClientSampleId :
VSTD05040

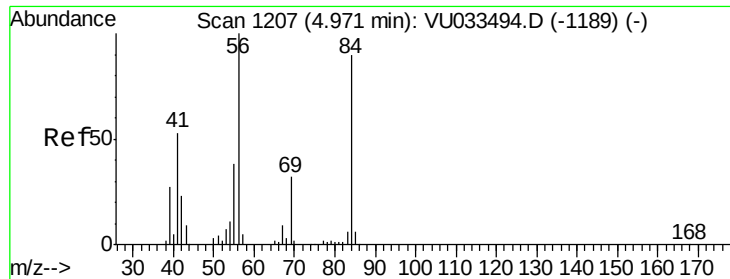
Tgt Ion: 83 Resp: 218344
Ion Ratio Lower Upper
83 100
85 63.7 45.6 84.8



#27
1,2-Dichloroethane
Concen: 50.626 ug/L
RT: 5.38 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VU033510.D
Acq: 30 Jul 2019 23:01

Tgt Ion: 62 Resp: 168260
Ion Ratio Lower Upper
62 100
98 8.9 7.2 10.8

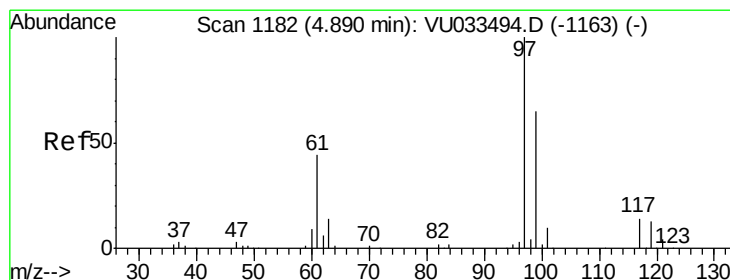
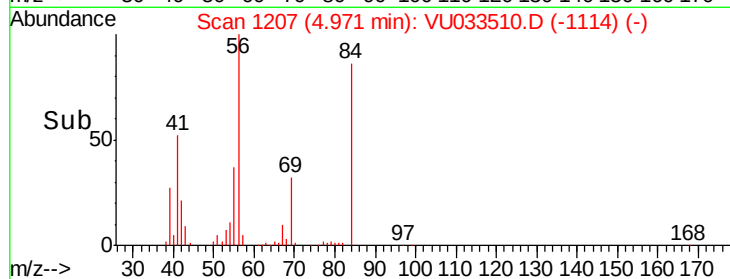
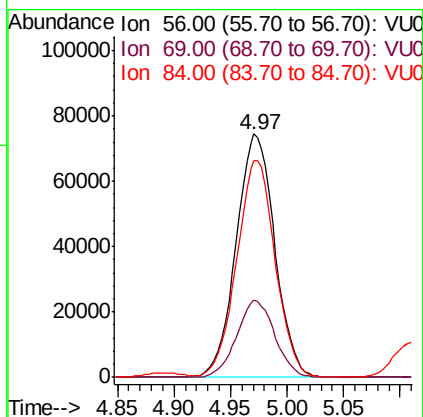
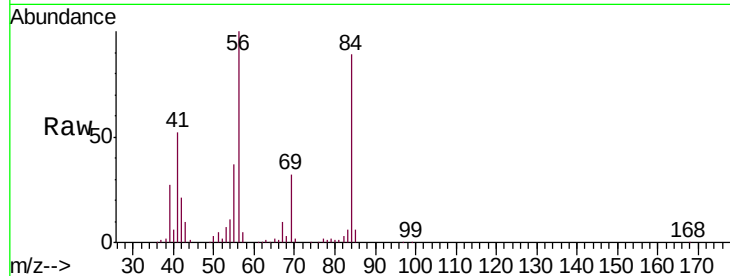




#29
Cyclohexane
Concen: 49.830 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. 0.00 min
Lab File: VU033510.D
Acq: 30 Jul 2019 23:01

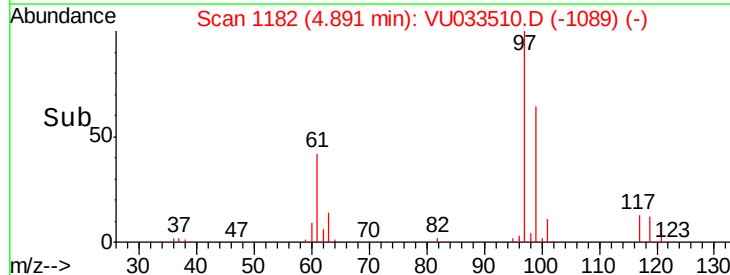
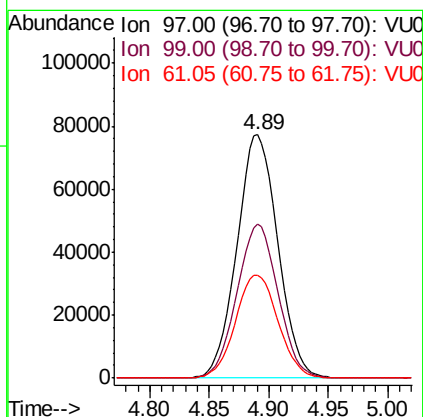
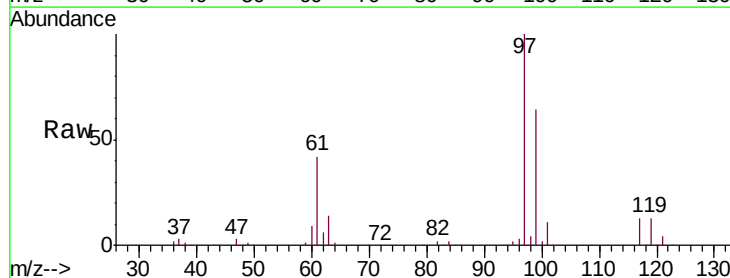
Instrument :
MSVOA_U
ClientSampleId :
VSTD05040

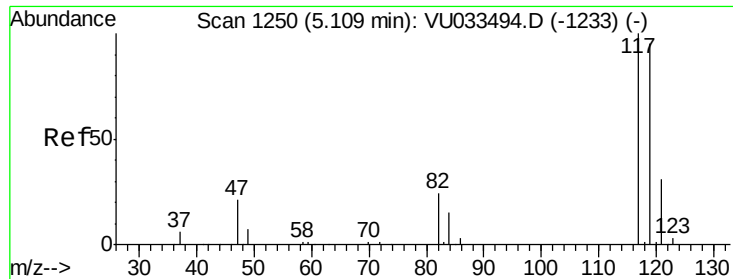
Tgt Ion: 56 Resp: 176347
Ion Ratio Lower Upper
56 100
69 31.3 25.0 37.6
84 89.2 71.6 107.4



#30
1,1,1-Trichloroethane
Concen: 49.441 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VU033510.D
Acq: 30 Jul 2019 23:01

Tgt Ion: 97 Resp: 184574
Ion Ratio Lower Upper
97 100
99 63.3 51.1 76.7
61 44.0 35.5 53.3





#31

Carbon tetrachloride

Concen: 49.705 ug/L

RT: 5.11 min Scan# 1251

Delta R.T. 0.00 min

Lab File: VU033510.D

Acq: 30 Jul 2019 23:01

Instrument :

MSVOA_U

ClientSampleId :

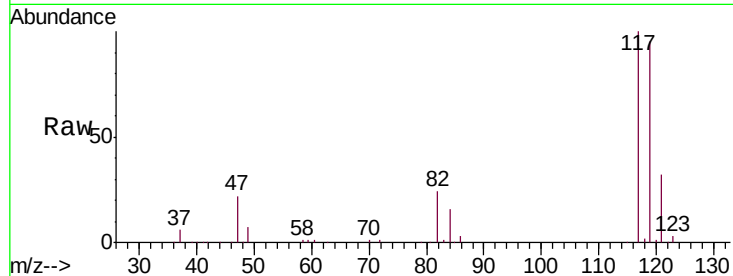
VSTD05040

Tgt Ion:117 Resp: 161591

Ion Ratio Lower Upper

117 100

119 95.7 77.0 115.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

5.11

80000

60000

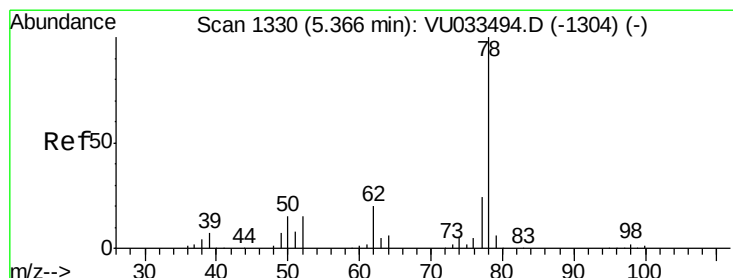
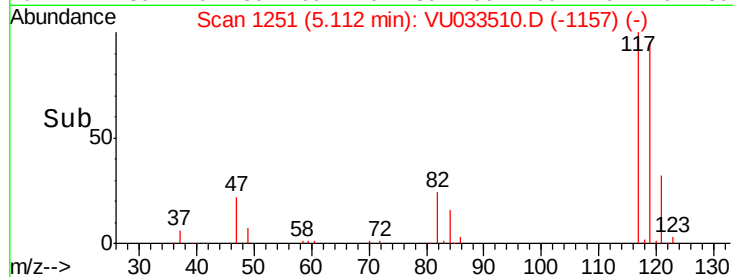
40000

20000

0

Time-->

5.00 5.10 5.20



#33

Benzene

Concen: 49.985 ug/L

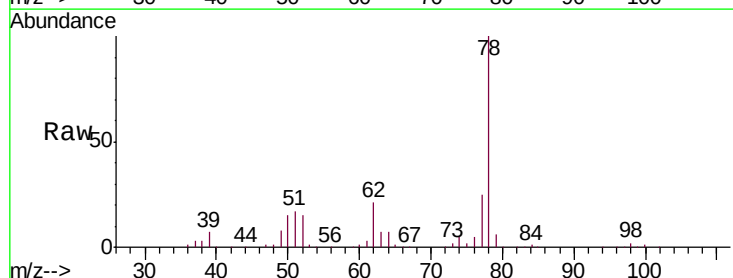
RT: 5.37 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VU033510.D

Acq: 30 Jul 2019 23:01

Tgt Ion: 78 Resp: 467853



Abundance Ion 78.00 (77.70 to 78.70): VU0

5.37

250000

200000

150000

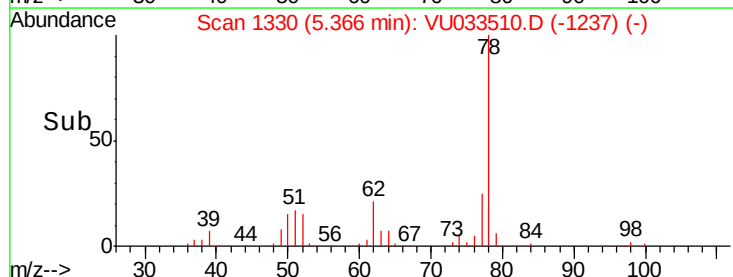
100000

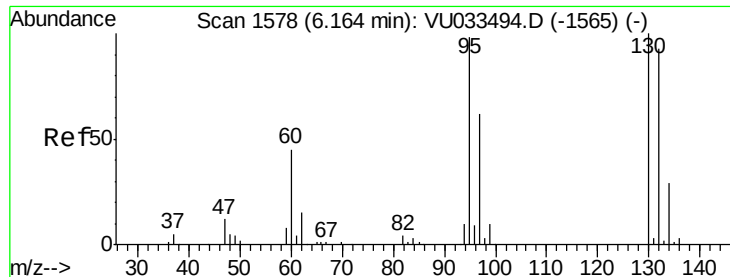
50000

0

Time-->

5.30 5.40 5.50





#34

Trichloroethene

Concen: 47.861 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VU033510.D

Acq: 30 Jul 2019 23:01

Instrument :

MSVOA_U

ClientSampleId :

VSTD05040

Tgt Ion: 95 Resp: 118169

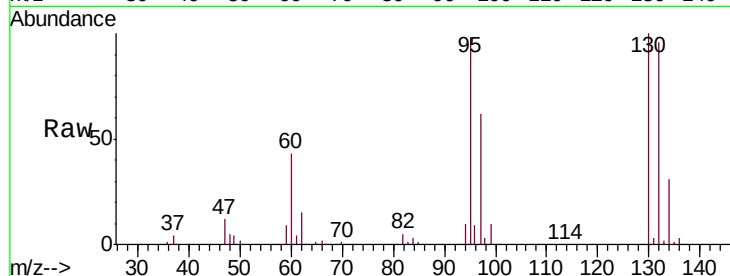
Ion Ratio Lower Upper

95 100

97 63.2 44.7 83.1

132 97.9 66.8 124.0

130 102.4 71.6 133.0

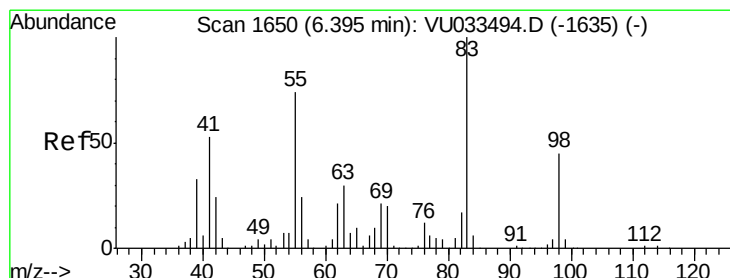
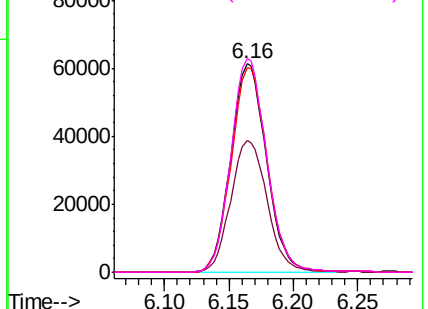
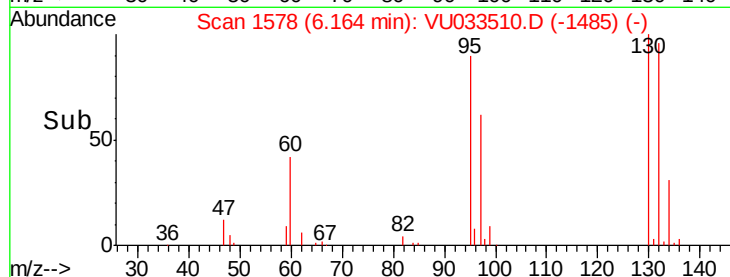


Abundance Ion 95.00 (94.70 to 95.70): VU033510.D (-1557) (-)

Ion 97.00 (96.70 to 97.70): VU033510.D (-1557) (-)

Ion 132.00 (131.70 to 132.70): VU033510.D (-1557) (-)

Ion 130.00 (129.70 to 130.70): VU033510.D (-1557) (-)



#35

Methylcyclohexane

Concen: 49.341 ug/L

RT: 6.40 min Scan# 1650

Delta R.T. 0.00 min

Lab File: VU033510.D

Acq: 30 Jul 2019 23:01

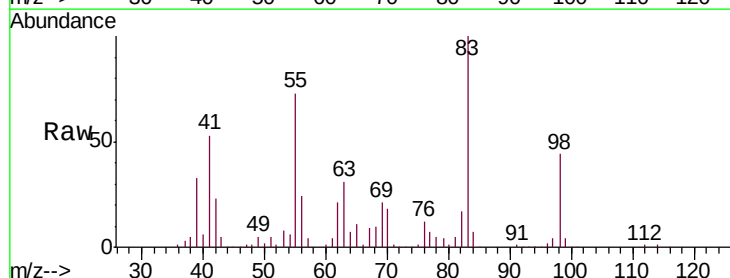
Tgt Ion: 83 Resp: 190100

Ion Ratio Lower Upper

83 100

55 74.6 60.2 90.4

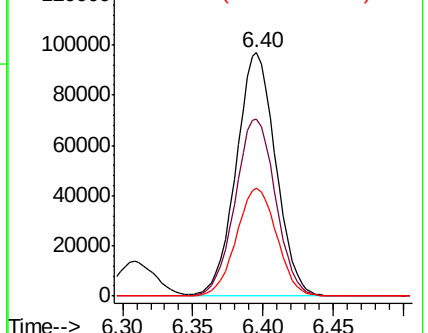
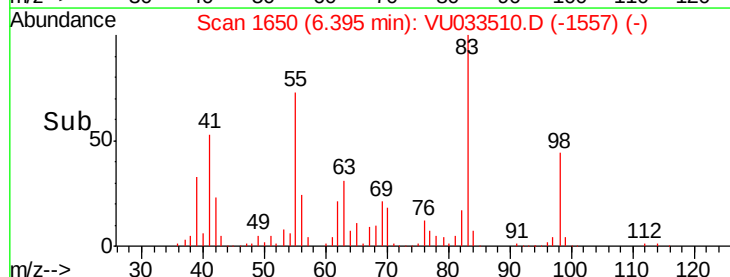
98 45.3 36.5 54.7

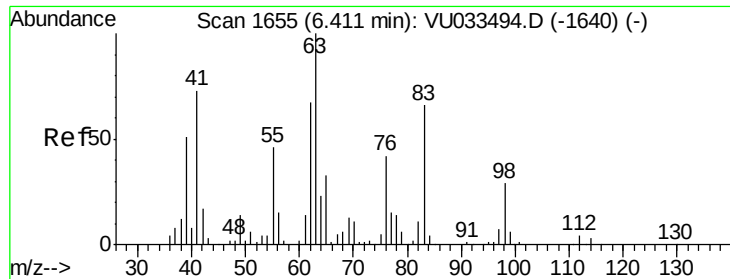


Abundance Ion 83.00 (82.70 to 83.70): VU033510.D (-1557) (-)

Ion 55.00 (54.70 to 55.70): VU033510.D (-1557) (-)

Ion 98.00 (97.70 to 98.70): VU033510.D (-1557) (-)

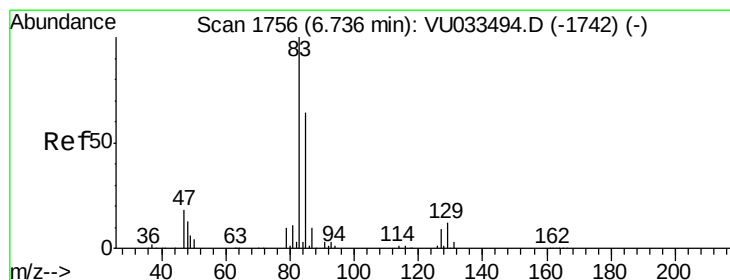
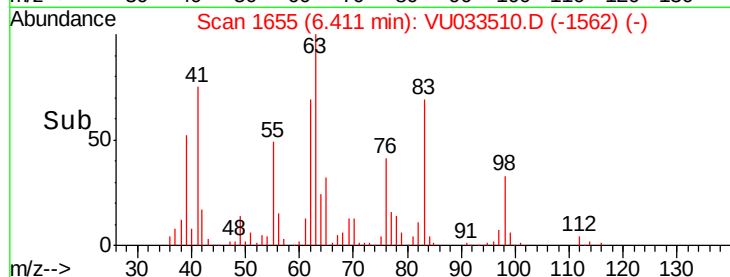
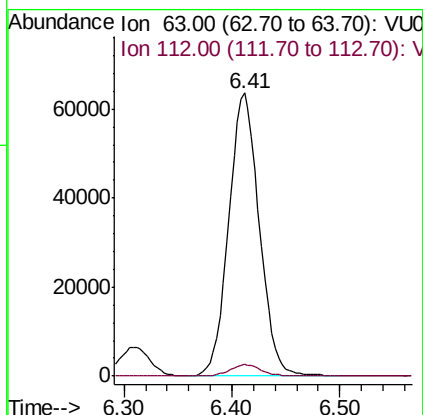
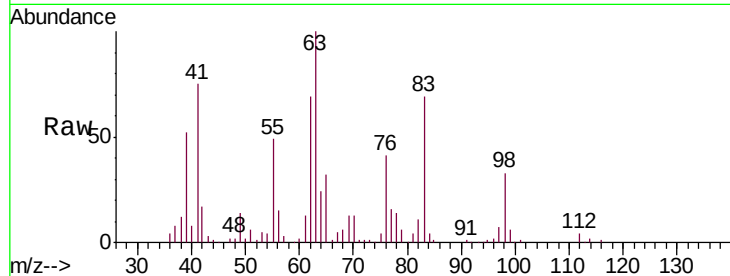




#37
 1,2-Dichloropropane
 Concen: 50.184 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU033510.D
 Acq: 30 Jul 2019 23:01

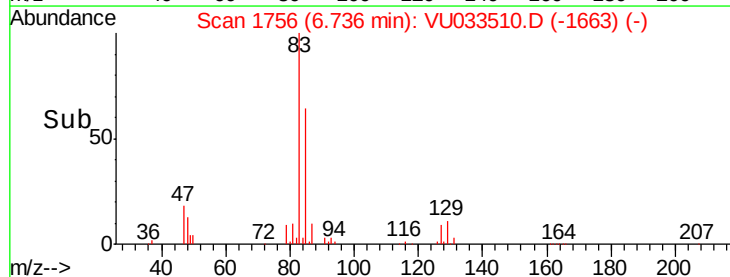
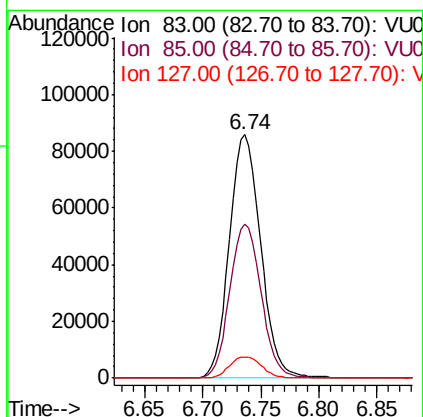
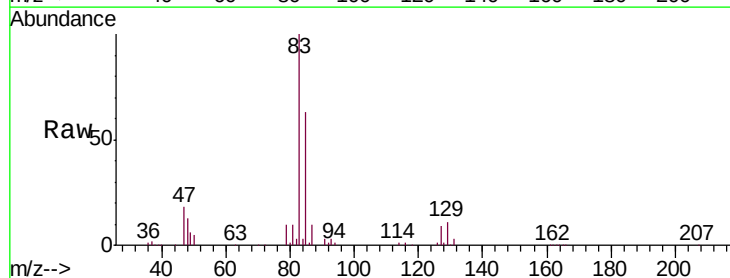
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05040

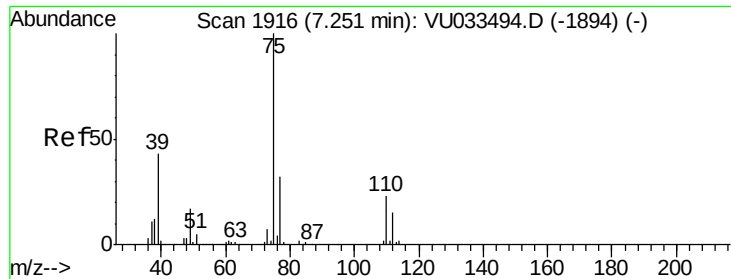
Tgt Ion: 63 Resp: 125731
 Ion Ratio Lower Upper
 63 100
 112 4.1 3.0 4.6



#38
 Bromodichloromethane
 Concen: 49.842 ug/L
 RT: 6.74 min Scan# 1756
 Delta R.T. 0.00 min
 Lab File: VU033510.D
 Acq: 30 Jul 2019 23:01

Tgt Ion: 83 Resp: 161427
 Ion Ratio Lower Upper
 83 100
 85 63.2 45.1 83.9
 127 8.8 7.2 10.8

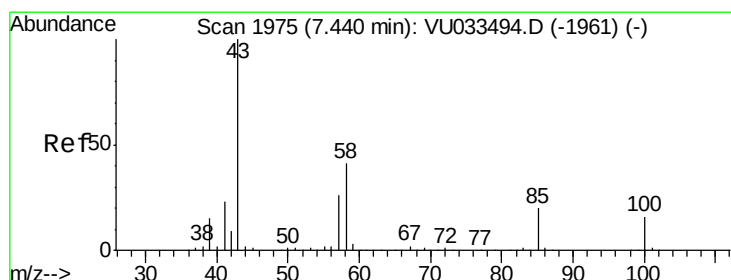
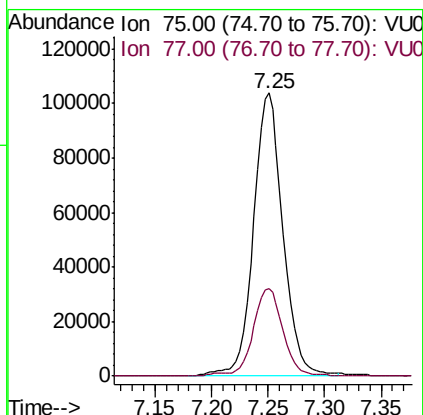
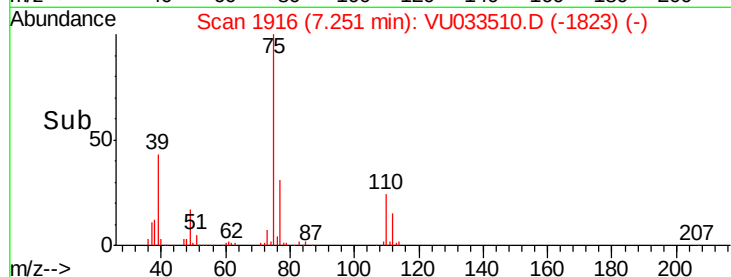
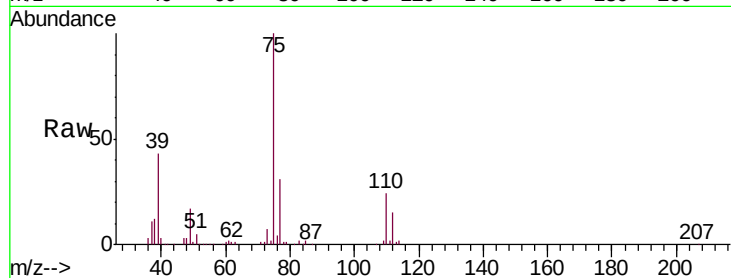




#39
 cis-1,3-Dichloropropene
 Concen: 48.014 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. 0.00 min
 Lab File: VU033510.D
 Acq: 30 Jul 2019 23:01

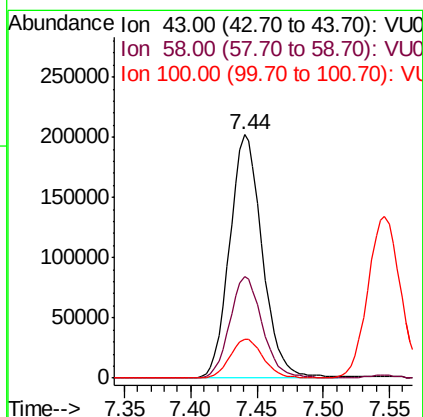
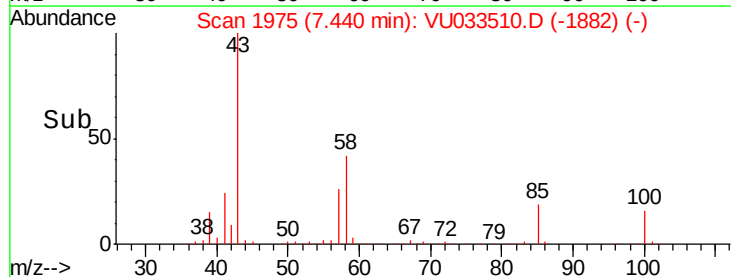
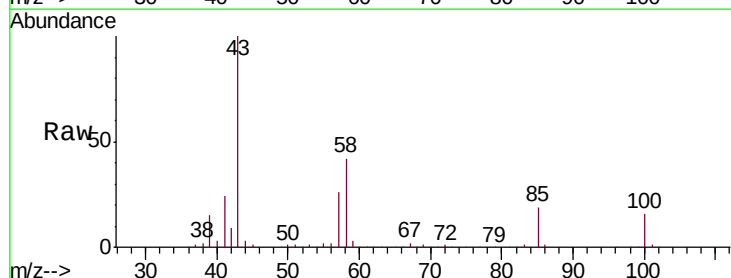
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05040

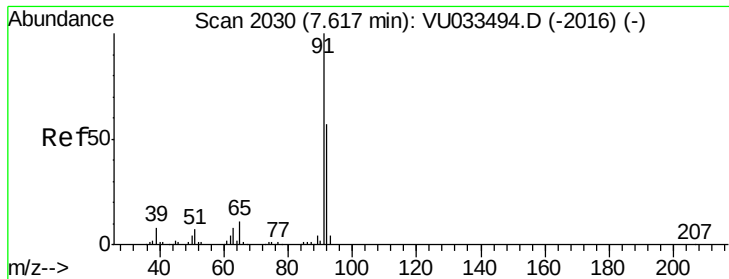
Tgt Ion: 75 Resp: 187755
 Ion Ratio Lower Upper
 75 100
 77 31.1 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 100.316 ug/L
 RT: 7.44 min Scan# 1975
 Delta R.T. 0.00 min
 Lab File: VU033510.D
 Acq: 30 Jul 2019 23:01

Tgt Ion: 43 Resp: 347003
 Ion Ratio Lower Upper
 43 100
 58 41.7 32.8 49.2
 100 16.1 12.9 19.3





#42

Toluene

Concen: 50.261 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU033510.D

Acq: 30 Jul 2019 23:01

Instrument :

MSVOA_U

ClientSampleId :

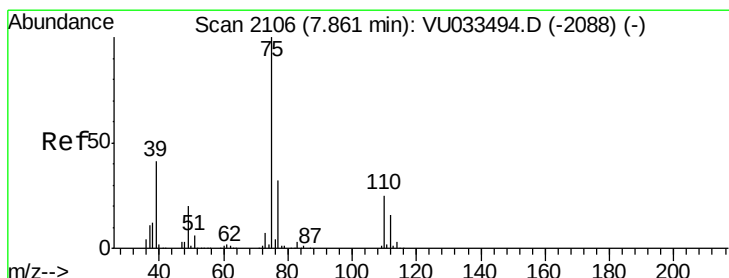
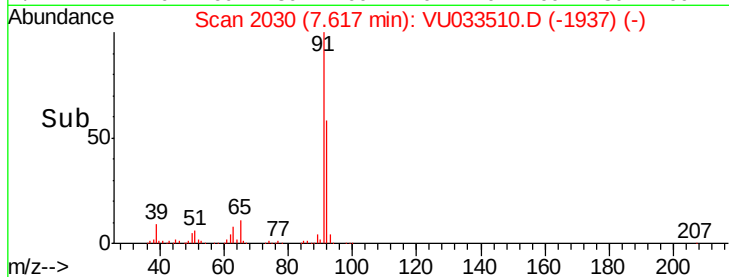
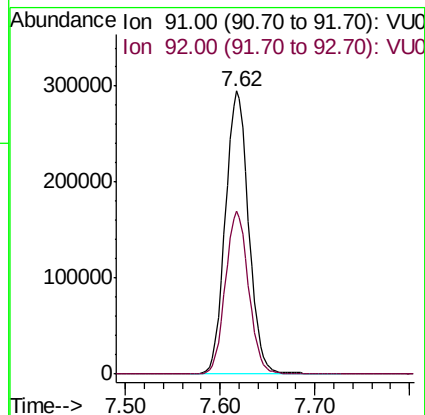
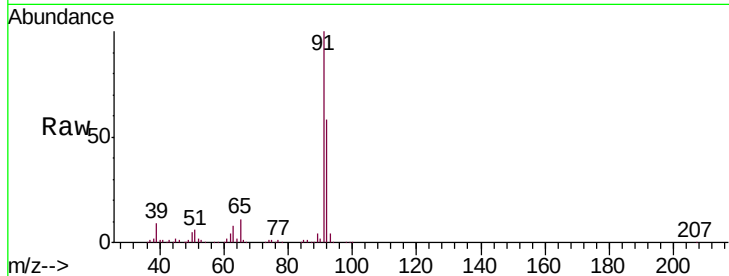
VSTD05040

Tgt Ion: 91 Resp: 505850

Ion Ratio Lower Upper

91 100

92 57.6 40.2 74.6



#44

trans-1,3-Dichloropropene

Concen: 48.116 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VU033510.D

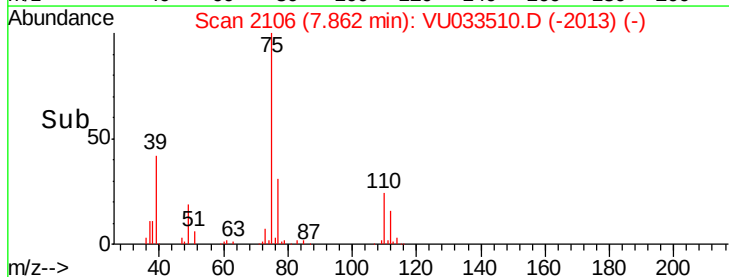
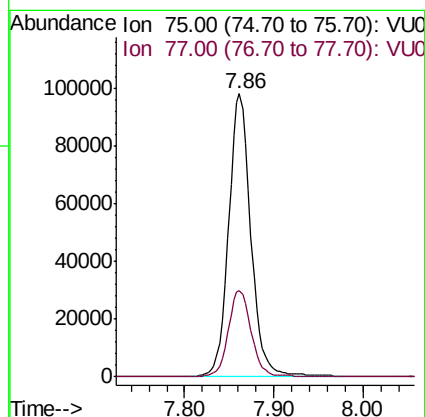
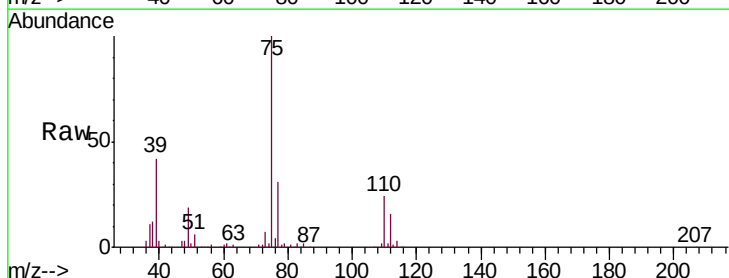
Acq: 30 Jul 2019 23:01

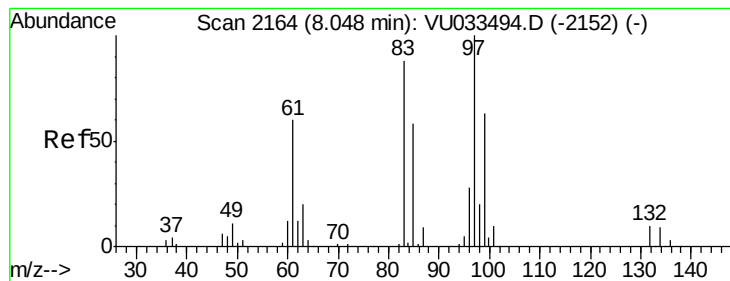
Tgt Ion: 75 Resp: 170039

Ion Ratio Lower Upper

75 100

77 30.6 22.7 42.1





#45

1,1,2-Trichloroethane

Concen: 49.327 ug/L

RT: 8.05 min Scan# 2164

Delta R.T. 0.00 min

Lab File: VU033510.D

Acq: 30 Jul 2019 23:01

Instrument :

MSVOA_U

ClientSampleId :

VSTD05040

Tgt Ion: 97 Resp: 117322

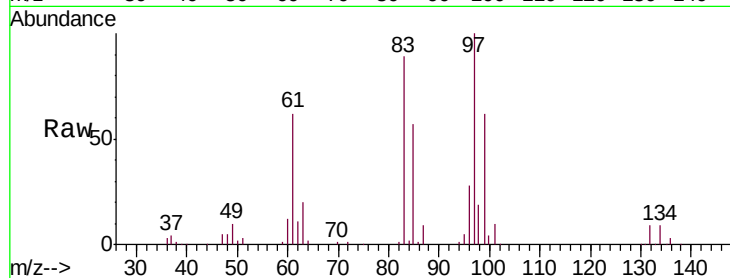
Ion Ratio Lower Upper

97 100

99 62.1 44.4 82.4

83 89.5 61.5 114.1

85 57.2 40.4 75.0

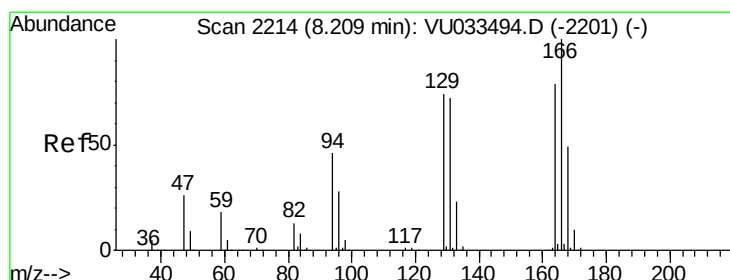
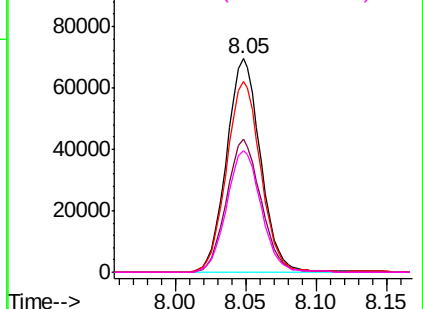
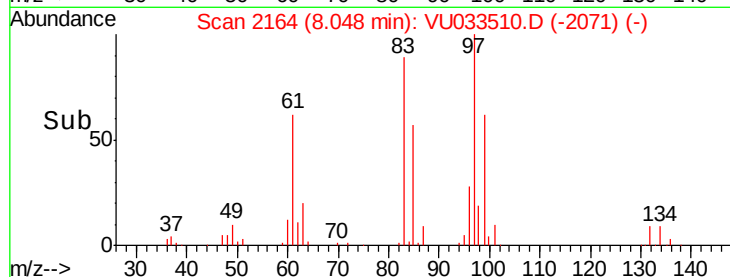


Abundance Ion 97.00 (96.70 to 97.70): VU0

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: 48.134 ug/L

RT: 8.21 min Scan# 2214

Delta R.T. 0.00 min

Lab File: VU033510.D

Acq: 30 Jul 2019 23:01

Tgt Ion: 164 Resp: 97023

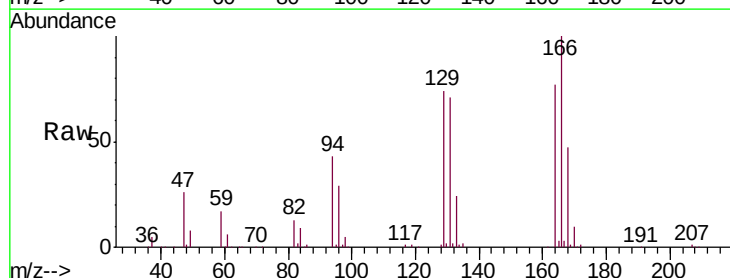
Ion Ratio Lower Upper

164 100

129 96.5 65.5 121.7

131 92.6 63.3 117.7

166 129.8 88.2 163.8

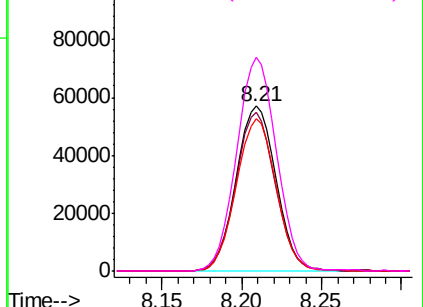
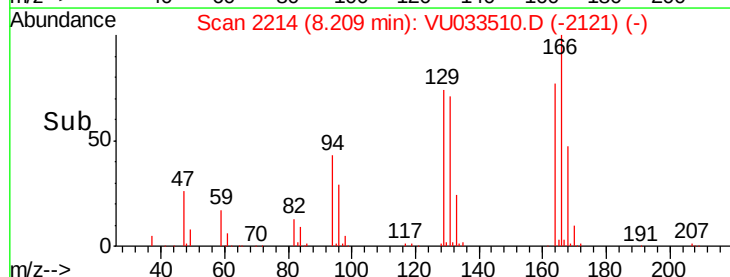


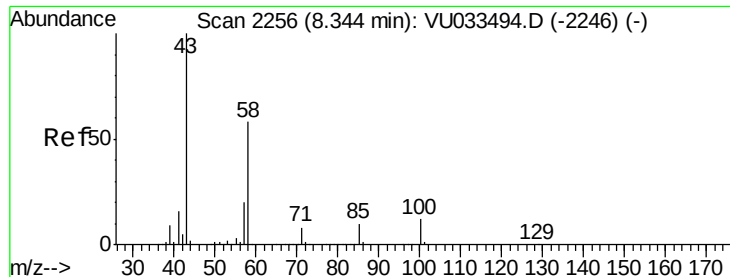
Abundance Ion 164.00 (163.70 to 164.70): V

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

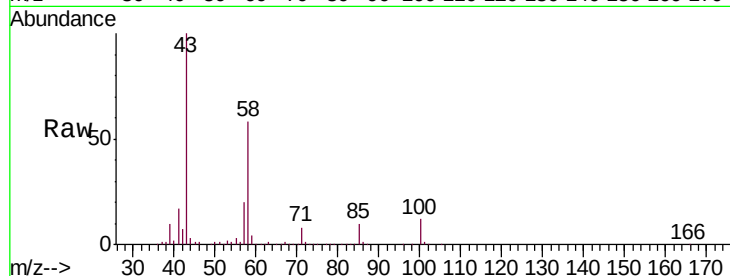




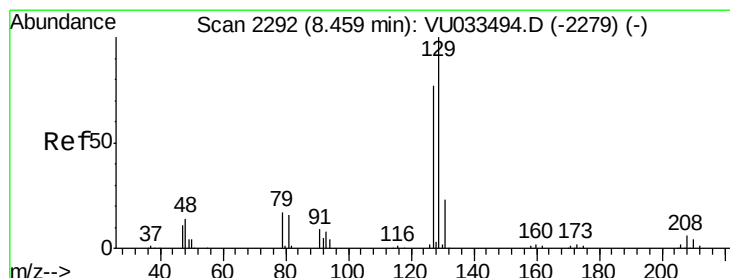
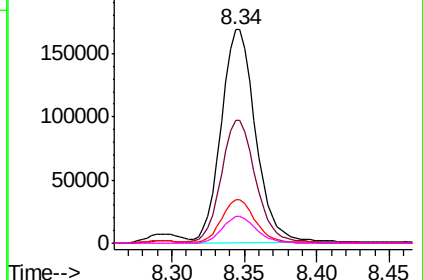
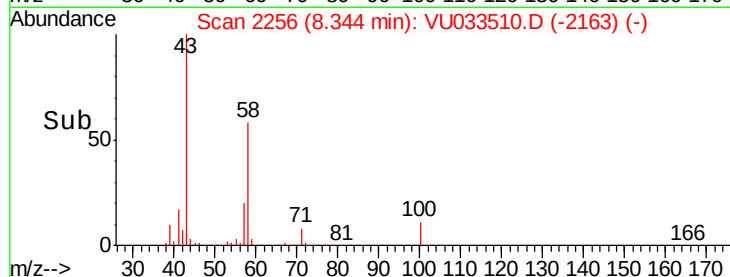
#48
2-Hexanone
Concen: 99.063 ug/L
RT: 8.34 min Scan# 2256
Delta R.T. 0.00 min
Lab File: VU033510.D
Acq: 30 Jul 2019 23:01

Instrument :
MSVOA_U
ClientSampleId :
VSTD05040

Tgt Ion:	43	Resp:	276983
Ion	Ratio	Lower	Upper
43	100		
58	58.6	45.8	68.6
57	20.4	15.8	23.6
100	12.7	9.4	14.2

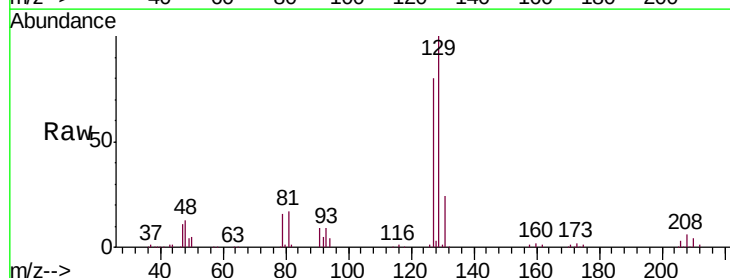


Abundance Ion 43.00 (42.70 to 43.70): VU033510.D (-2163) (-)
Ion 58.00 (57.70 to 58.70): VU033510.D (-2163) (-)
Ion 57.00 (56.70 to 57.70): VU033510.D (-2163) (-)
Ion 100.00 (99.70 to 100.70): VU033510.D (-2163) (-)

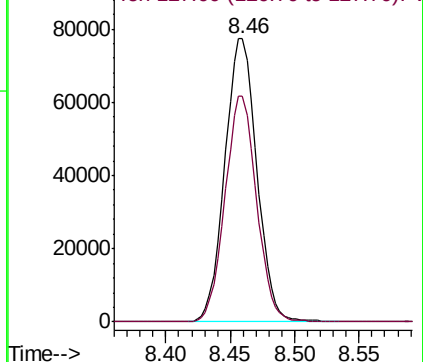
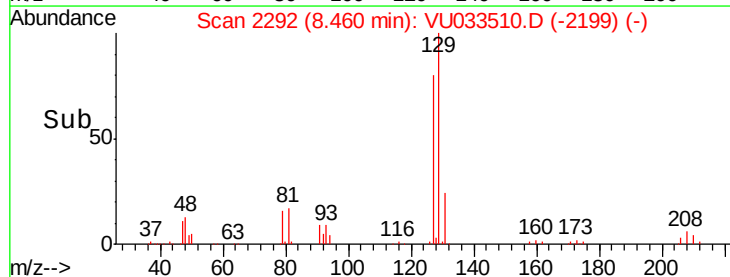


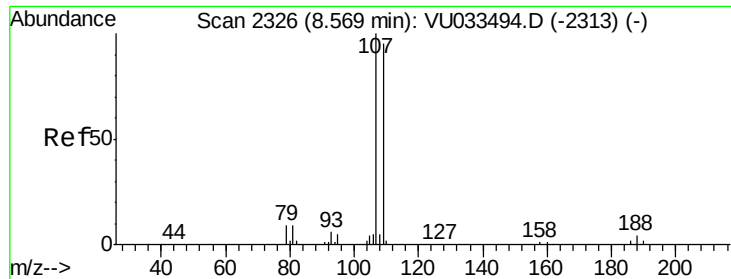
#49
Dibromochloromethane
Concen: 49.338 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU033510.D
Acq: 30 Jul 2019 23:01

Tgt Ion:	129	Resp:	133510
Ion	Ratio	Lower	Upper
129	100		
127	79.8	53.8	99.8



Abundance Ion 129.00 (128.70 to 129.70): VU033510.D (-2199) (-)
Ion 127.00 (126.70 to 127.70): VU033510.D (-2199) (-)

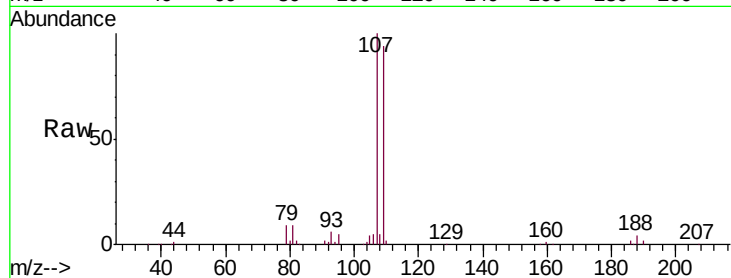




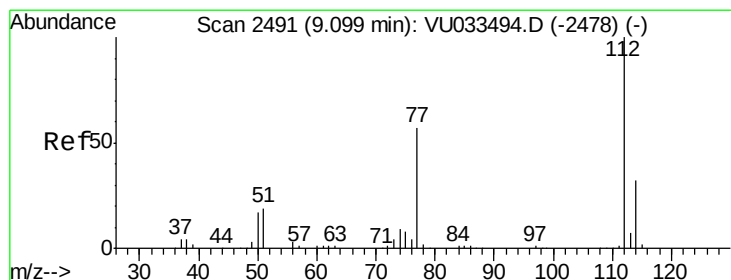
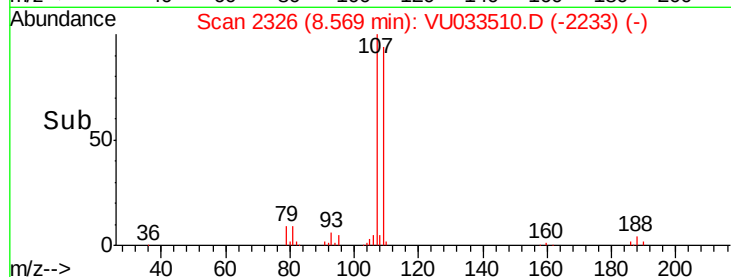
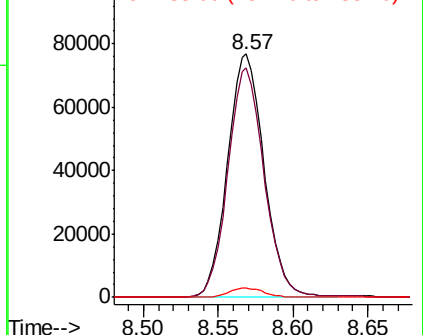
#50
 1,2-Dibromoethane
 Concen: 49.641 ug/L
 RT: 8.57 min Scan# 2326
 Delta R.T. 0.00 min
 Lab File: VU033510.D
 Acq: 30 Jul 2019 23:01

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05040

Tgt Ion:107 Resp: 130784
 Ion Ratio Lower Upper
 107 100
 109 94.0 66.8 124.0
 188 3.9 3.0 4.4

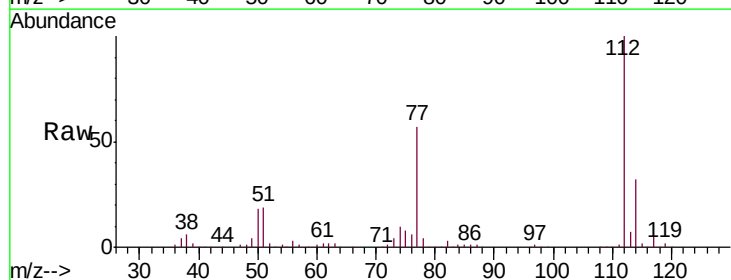


Abundance Ion 107.00 (106.70 to 107.70): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 188.00 (187.70 to 188.70): V

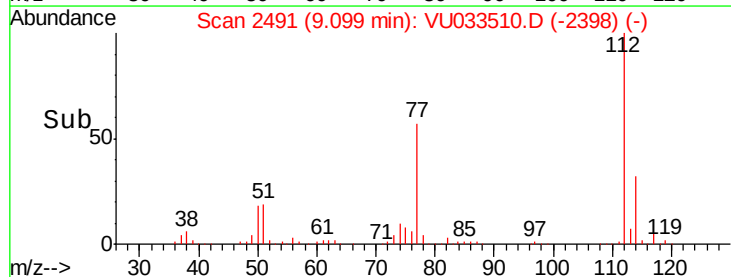
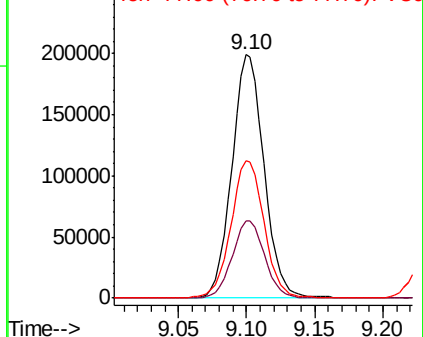


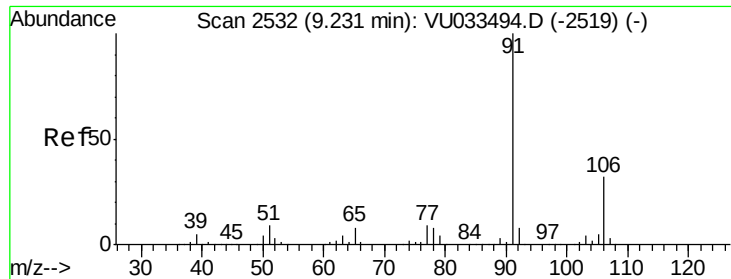
#51
 Chlorobenzene
 Concen: 49.362 ug/L
 RT: 9.10 min Scan# 2491
 Delta R.T. 0.00 min
 Lab File: VU033510.D
 Acq: 30 Jul 2019 23:01

Tgt Ion:112 Resp: 325254
 Ion Ratio Lower Upper
 112 100
 114 31.6 22.3 41.5
 77 56.6 45.6 68.4



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): V





#52

Ethylbenzene

Concen: 50.432 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. 0.00 min

Lab File: VU033510.D

Acq: 30 Jul 2019 23:01

Instrument :

MSVOA_U

ClientSampleId :

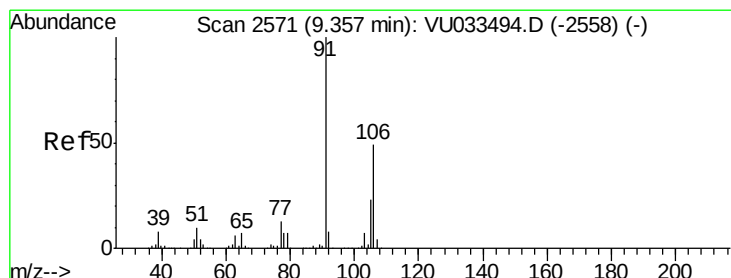
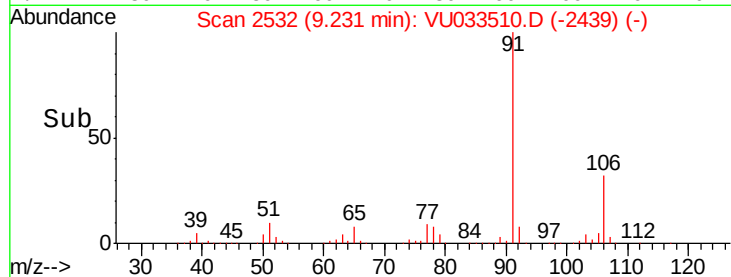
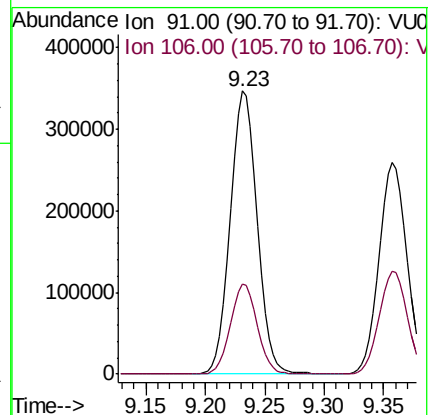
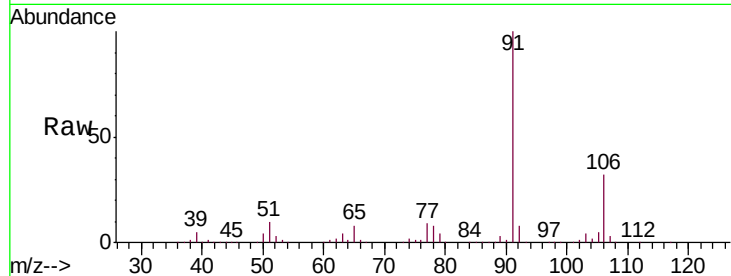
VSTD05040

Tgt Ion: 91 Resp: 546564

Ion Ratio Lower Upper

91 100

106 31.8 22.2 41.2



#53

m,p-Xylene

Concen: 49.973 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. 0.00 min

Lab File: VU033510.D

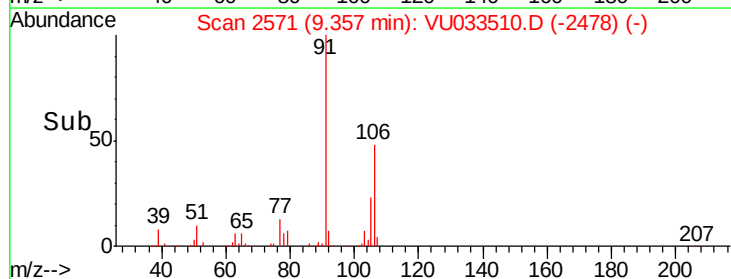
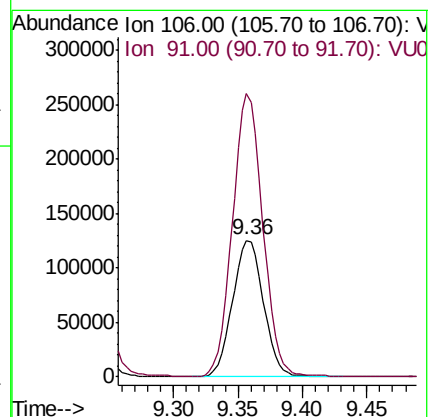
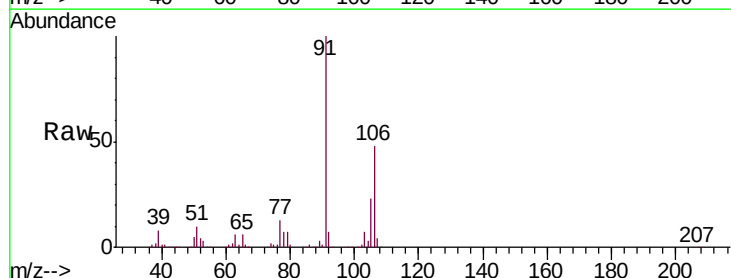
Acq: 30 Jul 2019 23:01

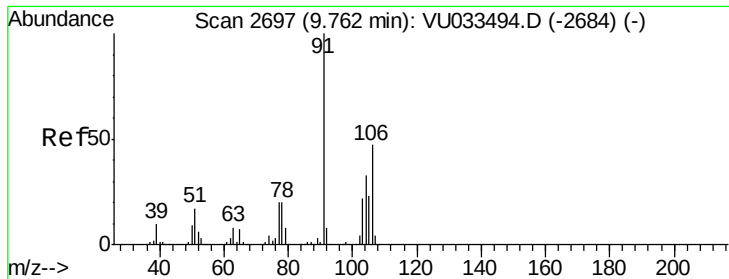
Tgt Ion: 106 Resp: 207915

Ion Ratio Lower Upper

106 100

91 206.9 143.0 265.6





#54

o-xylene

Concen: 51.237 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. 0.00 min

Lab File: VU033510.D

Acq: 30 Jul 2019 23:01

Instrument :

MSVOA_U

ClientSampleId :

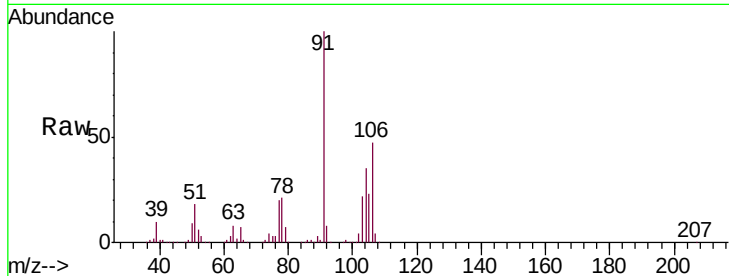
VSTD05040

Tgt Ion:106 Resp: 206787

Ion Ratio Lower Upper

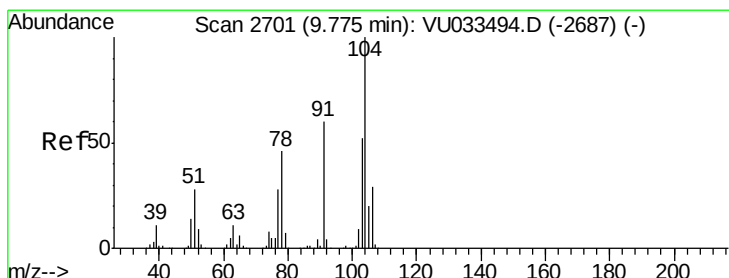
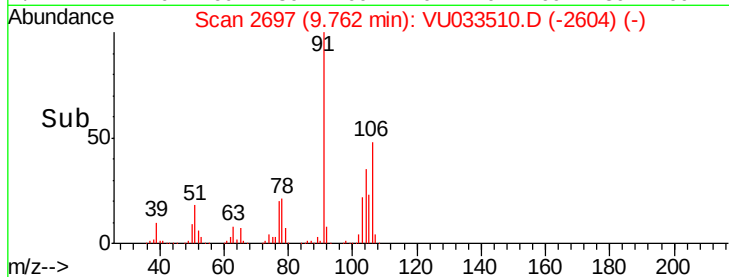
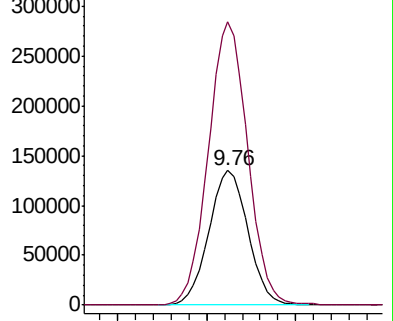
106 100

91 210.6 148.4 275.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 51.530 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU033510.D

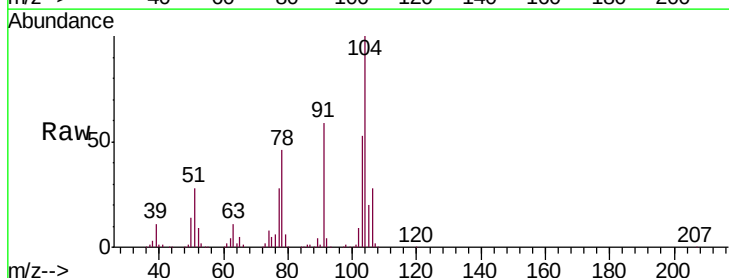
Acq: 30 Jul 2019 23:01

Tgt Ion:104 Resp: 353219

Ion Ratio Lower Upper

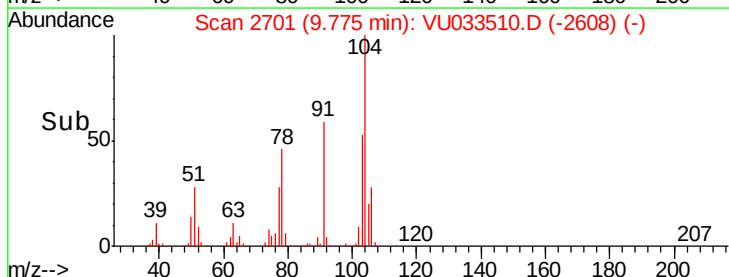
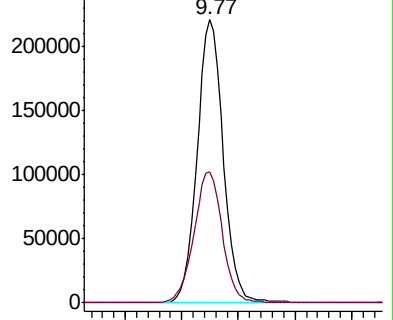
104 100

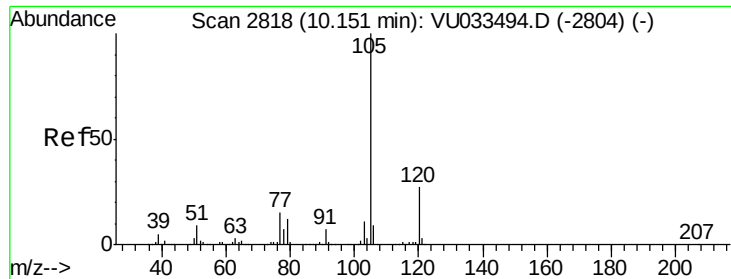
78 46.3 32.2 59.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 50.198 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. 0.00 min

Lab File: VU033510.D

Acq: 30 Jul 2019 23:01

Instrument :

MSVOA_U

ClientSampleId :

VSTD05040

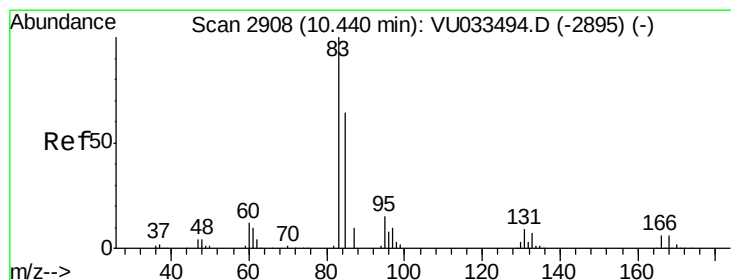
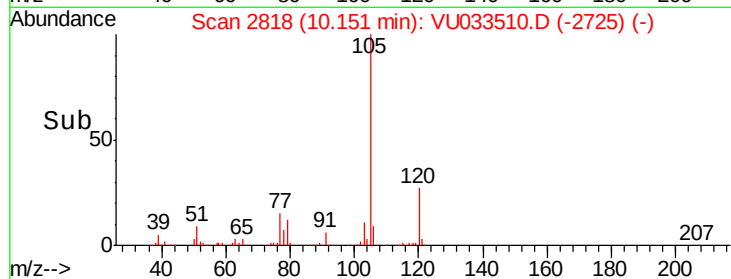
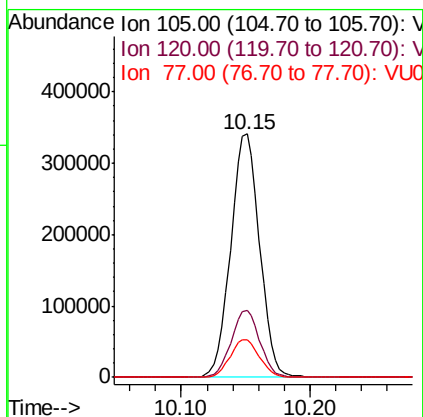
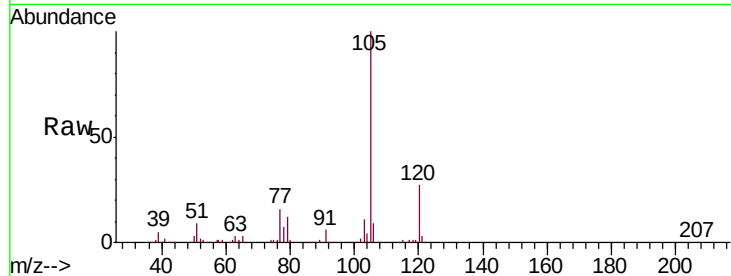
Tgt Ion: 105 Resp: 529353

Ion Ratio Lower Upper

105 100

120 27.1 21.4 32.0

77 15.8 12.5 18.7



#58

1,1,2,2-Tetrachloroethane

Concen: 49.506 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VU033510.D

Acq: 30 Jul 2019 23:01

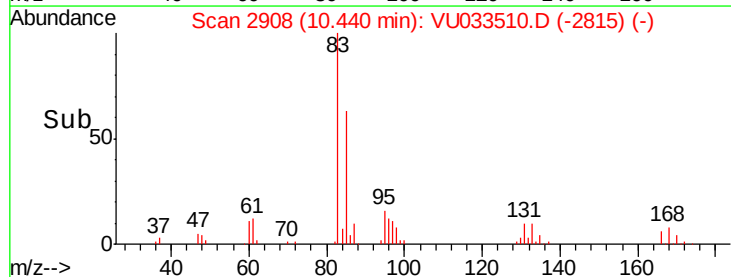
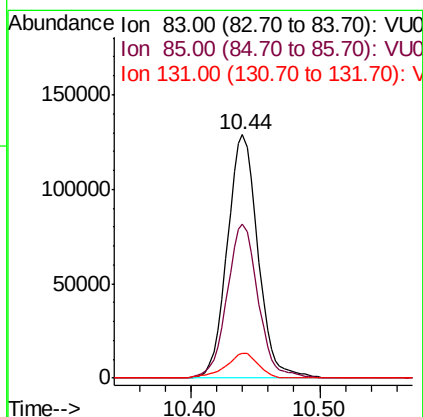
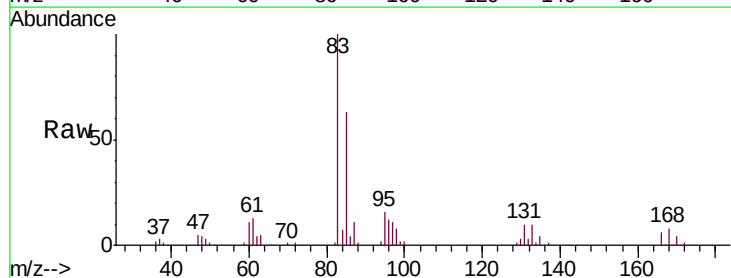
Tgt Ion: 83 Resp: 212373

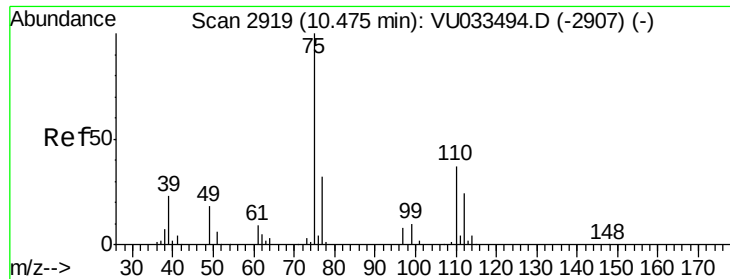
Ion Ratio Lower Upper

83 100

85 63.5 45.4 84.4

131 10.2 7.9 11.9





#59

1,2,3-Trichloropropane

Concen: 49.269 ug/L

RT: 10.48 min Scan# 2919

Delta R.T. 0.00 min

Lab File: VU033510.D

Acq: 30 Jul 2019 23:01

Instrument :

MSVOA_U

ClientSampleId :

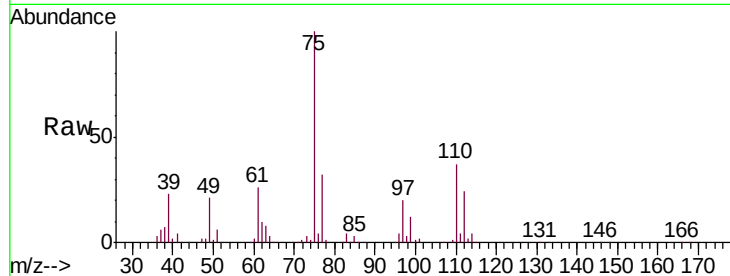
VSTD05040

Tgt Ion: 75 Resp: 162930

Ion Ratio Lower Upper

75 100

77 32.2 25.8 38.6



Abundance Ion 75.00 (74.70 to 75.70): VU033494.D (-2907) (-)

Ion 77.00 (76.70 to 77.70): VU033494.D (-2907) (-)

10.48

120000

100000

80000

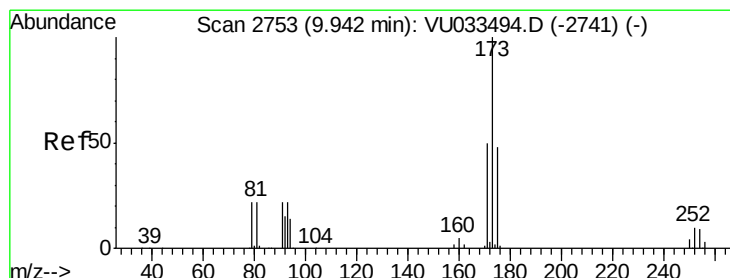
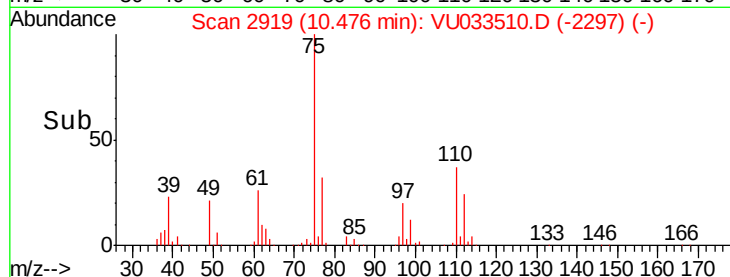
60000

40000

20000

0

Time-->



#61

Bromoform

Concen: 49.007 ug/L

RT: 9.94 min Scan# 2753

Delta R.T. 0.00 min

Lab File: VU033510.D

Acq: 30 Jul 2019 23:01

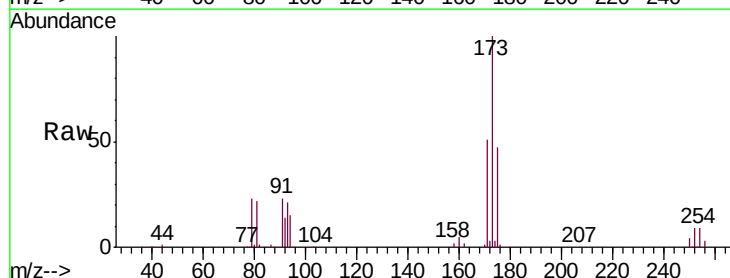
Tgt Ion: 173 Resp: 103714

Ion Ratio Lower Upper

173 100

175 48.3 38.7 58.1

254 9.3 7.5 11.3



Abundance Ion 173.00 (172.70 to 173.70): VU033494.D (-2741) (-)

Ion 175.00 (174.70 to 175.70): VU033494.D (-2741) (-)

Ion 254.00 (253.70 to 254.70): VU033494.D (-2741) (-)

9.94

80000

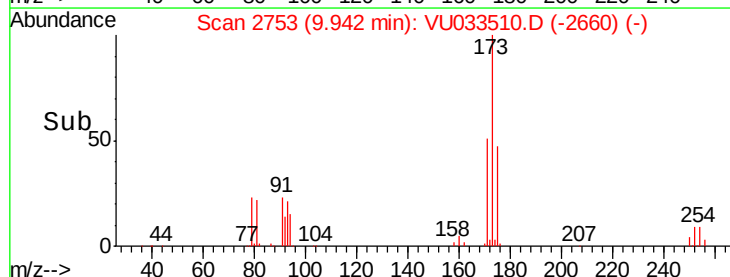
60000

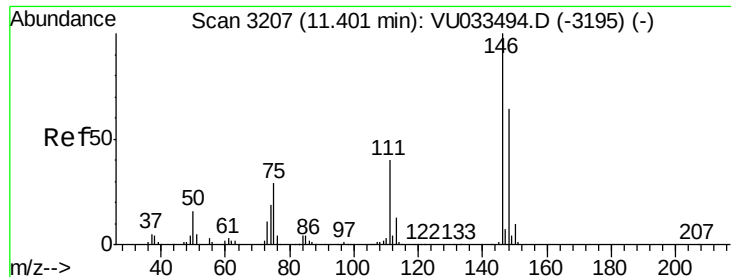
40000

20000

0

Time-->

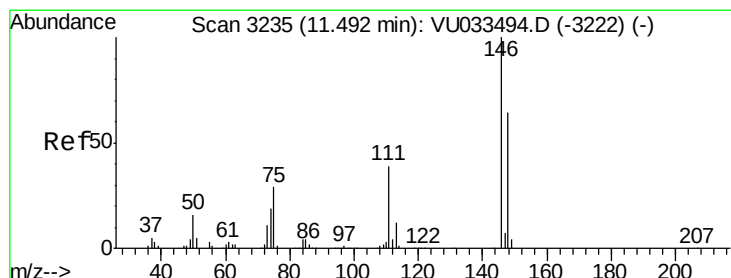
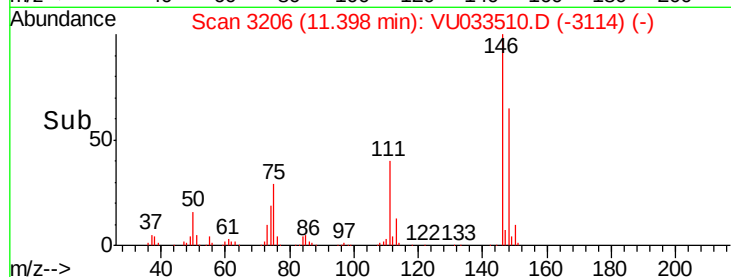
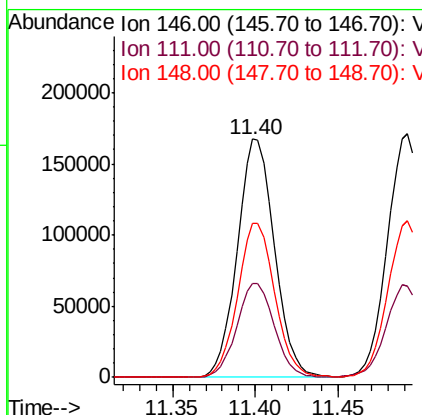
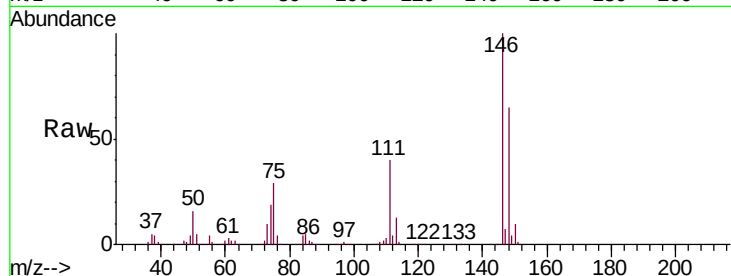




#62
 1,3-Dichlorobenzene
 Concen: 48.527 ug/L
 RT: 11.40 min Scan# 3206
 Delta R.T. -0.00 min
 Lab File: VU033510.D
 Acq: 30 Jul 2019 23:01

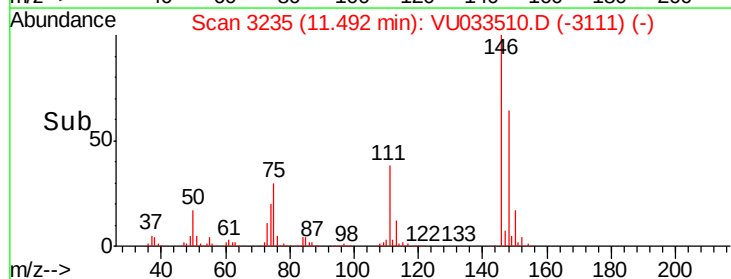
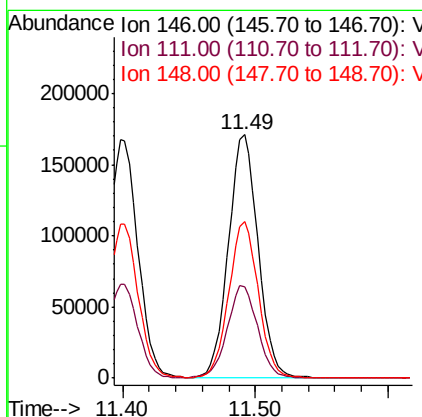
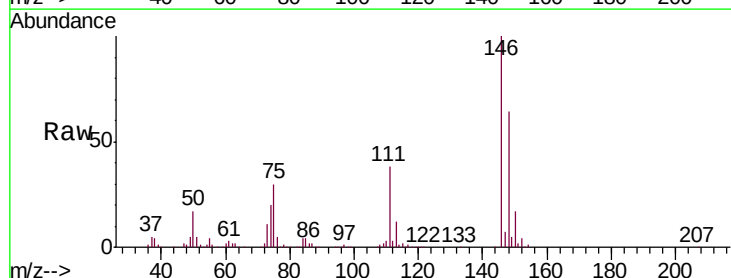
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05040

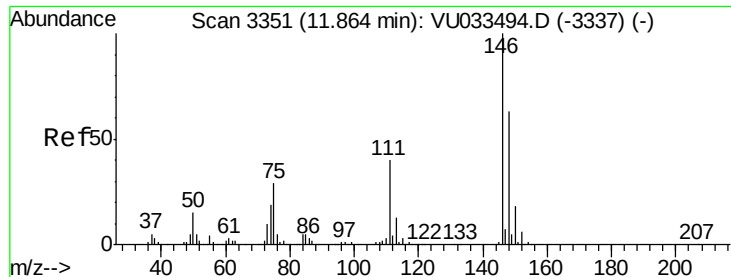
Tgt Ion:146 Resp: 261099
 Ion Ratio Lower Upper
 146 100
 111 39.7 28.1 52.1
 148 64.6 45.0 83.6



#63
 1,4-Dichlorobenzene
 Concen: 47.397 ug/L
 RT: 11.49 min Scan# 3235
 Delta R.T. 0.00 min
 Lab File: VU033510.D
 Acq: 30 Jul 2019 23:01

Tgt Ion:146 Resp: 264945
 Ion Ratio Lower Upper
 146 100
 111 37.6 27.2 50.4
 148 64.3 44.5 82.7





#65

1,2-Dichlorobenzene

Concen: 48.623 ug/L

RT: 11.86 min Scan# 3350

Delta R.T. -0.00 min

Lab File: VU033510.D

Acq: 30 Jul 2019 23:01

Instrument :

MSVOA_U

ClientSampleId :

VSTD05040

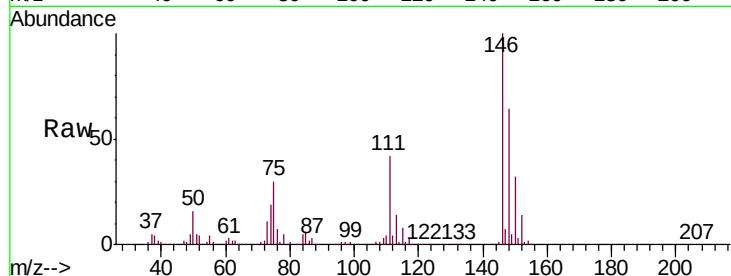
Tgt Ion:146 Resp: 264524

Ion Ratio Lower Upper

146 100

111 42.0 31.7 47.5

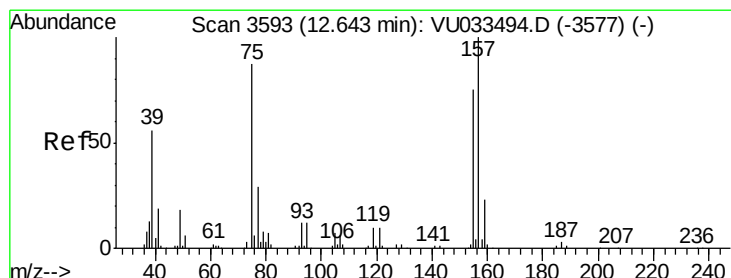
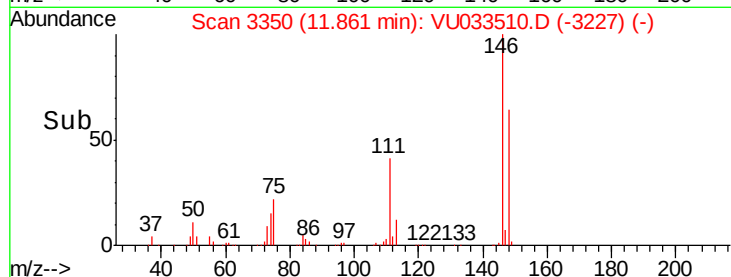
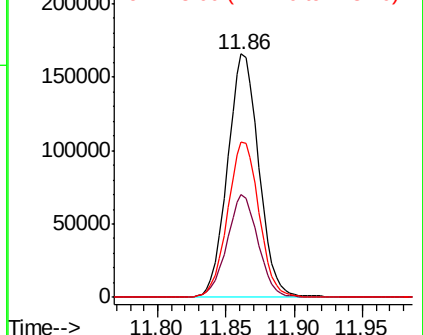
148 63.6 50.3 75.5



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



#66

1,2-Dibromo-3-chloropropane

Concen: 49.145 ug/L

RT: 12.64 min Scan# 3593

Delta R.T. 0.00 min

Lab File: VU033510.D

Acq: 30 Jul 2019 23:01

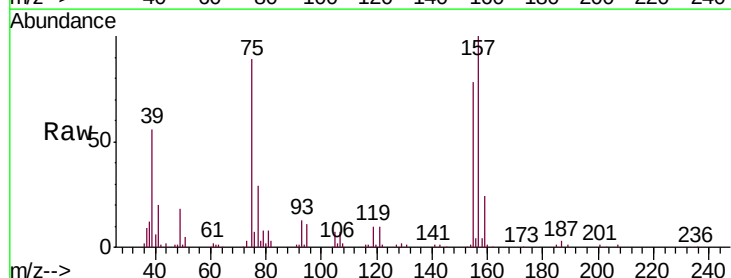
Tgt Ion: 75 Resp: 49397

Ion Ratio Lower Upper

75 100

155 87.5 69.4 104.0

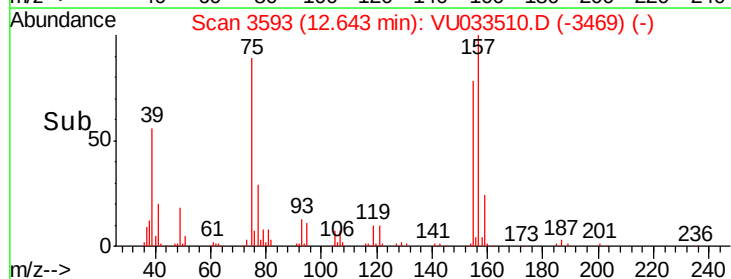
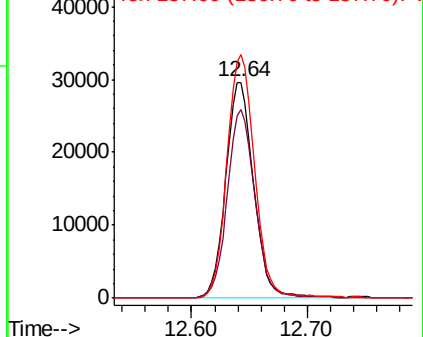
157 112.7 91.8 137.8

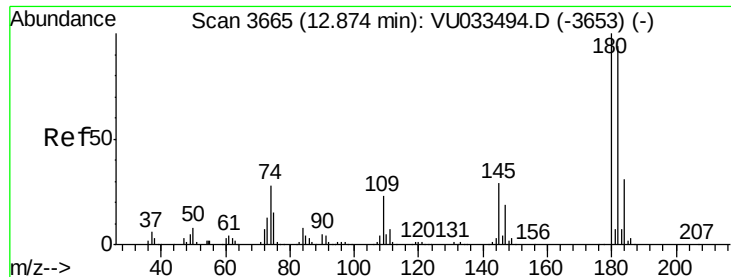


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

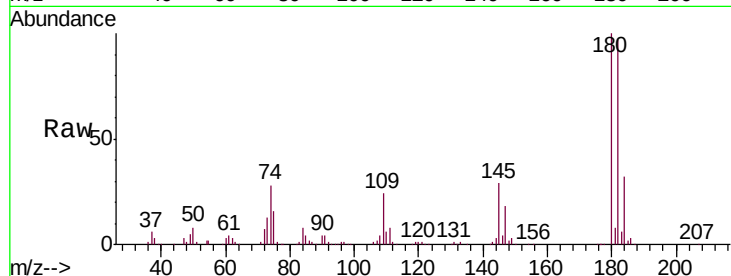




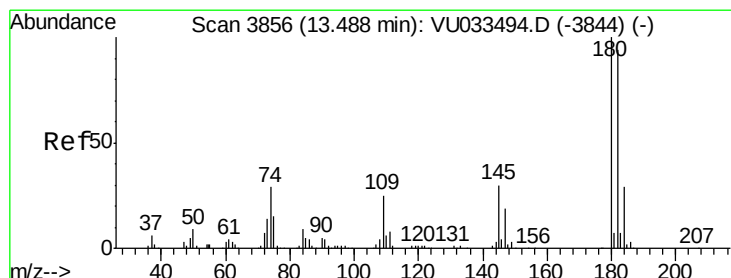
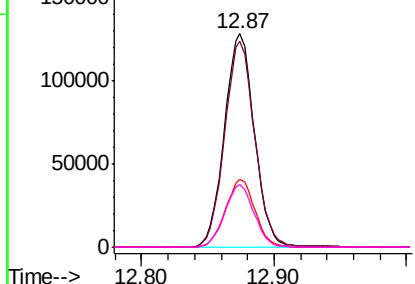
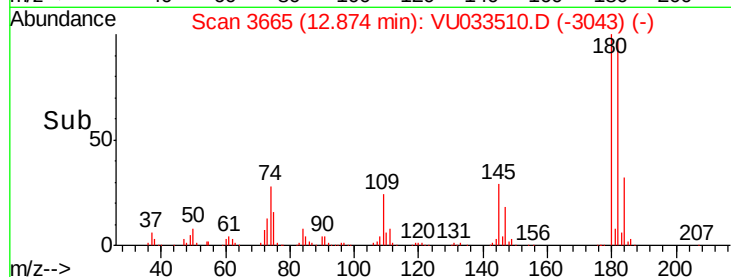
#67
 1,3,5-Trichlorobenzene
 Concen: 46.734 ug/L
 RT: 12.87 min Scan# 3665
 Delta R.T. 0.00 min
 Lab File: VU033510.D
 Acq: 30 Jul 2019 23:01

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05040

Tgt Ion:	180	Resp:	202861
Ion	Ratio	Lower	Upper
180	100		
182	96.2	75.6	113.4
184	31.3	24.2	36.2
145	28.6	22.7	34.1

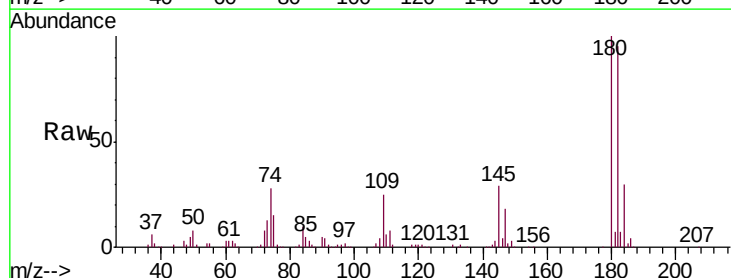


Abundance Ion 180.00 (179.70 to 180.70): V
 200000
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

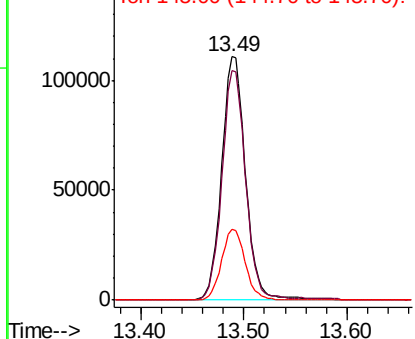
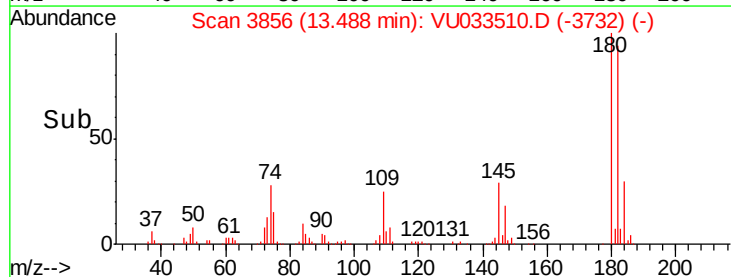


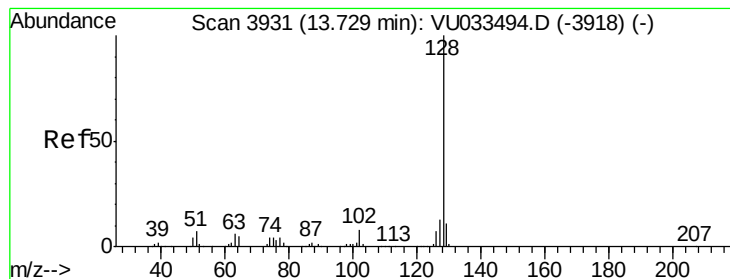
#68
 1,2,4-trichlorobenzene
 Concen: 48.147 ug/L
 RT: 13.49 min Scan# 3856
 Delta R.T. 0.00 min
 Lab File: VU033510.D
 Acq: 30 Jul 2019 23:01

Tgt Ion:	180	Resp:	178580
Ion	Ratio	Lower	Upper
180	100		
182	92.9	75.8	113.8
145	28.8	24.3	36.5



Abundance Ion 180.00 (179.70 to 180.70): V
 150000
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 48.607 ug/L

RT: 13.73 min Scan# 3931

Delta R.T. 0.00 min

Lab File: VU033510.D

Acq: 30 Jul 2019 23:01

Instrument :

MSVOA_U

ClientSampleId :

VSTD05040

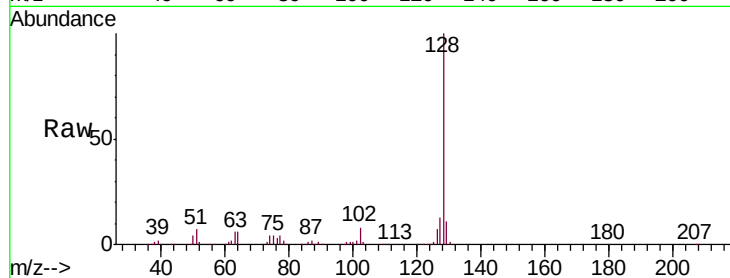
Tgt Ion:128 Resp: 517248

Ion Ratio Lower Upper

128 100

127 13.1 10.8 16.2

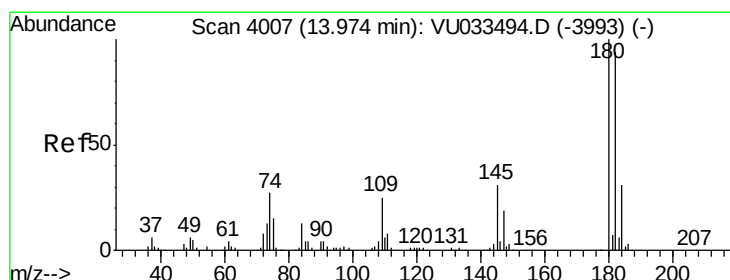
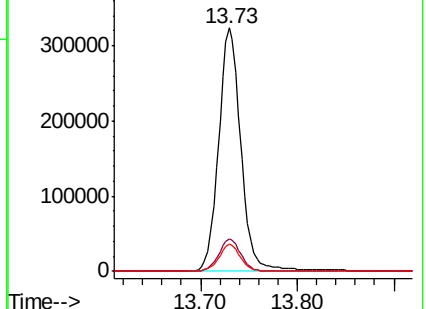
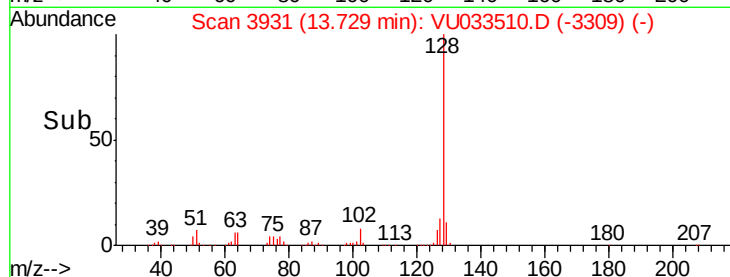
129 10.8 8.7 13.1



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: 48.082 ug/L

RT: 13.97 min Scan# 4007

Delta R.T. 0.00 min

Lab File: VU033510.D

Acq: 30 Jul 2019 23:01

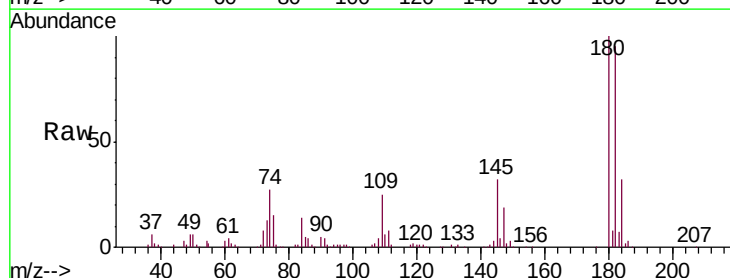
Tgt Ion:180 Resp: 187557

Ion Ratio Lower Upper

180 100

182 94.6 75.5 113.3

145 31.3 24.4 36.6



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

