

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU081019\
 Data File : VU033719.D
 Acq On : 10 Aug 2019 10:16
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05058

Quant Time: Aug 11 04:22:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080919WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Aug 10 04:26:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	324426	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	309946	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	171099	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	122399	51.25	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	102.50%
7) Chloroethane-d5	1.67	69	116748	48.77	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	97.54%
11) 1,1-Dichloroethene-d2	2.26	63	205467	51.17	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	102.34%
21) 2-Butanone-d5	4.16	46	165710	111.93	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	111.93%
24) Chloroform-d	4.62	84	188448	53.11	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	106.22%
26) 1,2-Dichloroethane-d4	5.29	65	116466	52.50	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	105.00%
32) Benzene-d6	5.32	84	378027	51.68	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.36%
36) 1,2-Dichloropropane-d6	6.31	67	119128	53.07	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	106.14%
41) Toluene-d8	7.55	98	353074	51.32	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	102.64%
43) trans-1,3-Dichloropropene-	7.83	79	58066	51.22	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	102.44%
47) 2-Hexanone-d5	8.29	63	127182	109.38	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	109.38%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	176241	53.07	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	106.14%
64) 1,2-Dichlorobenzene-d4	11.84	152	142070	49.34	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.68%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	113890	48.122	ug/L 99
3) Chloromethane	1.32	50	120281	49.068	ug/L 99
5) Vinyl chloride	1.40	62	129693	47.489	ug/L 98
6) Bromomethane	1.62	94	79354	35.814	ug/L 99
8) Chloroethane	1.69	64	97952	47.113	ug/L 96
9) Trichlorofluoromethane	1.87	101	177570	47.950	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	94660	48.740	ug/L 98
12) 1,1-Dichloroethene	2.27	96	88719	46.505	ug/L 94
13) Acetone	2.32	43	173211	116.358	ug/L 98
14) Carbon disulfide	2.46	76	253484	47.332	ug/L 100
15) Methyl Acetate	2.60	43	118946	47.957	ug/L 98
16) Methylene chloride	2.68	84	103341	46.685	ug/L 99
17) trans-1,2-Dichloroethene	2.96	96	94274	46.108	ug/L 98
18) Methyl tert-butyl Ether	2.98	73	300628	44.954	ug/L 99
19) 1,1-Dichloroethane	3.42	63	179560	46.536	ug/L 99
20) cis-1,2-Dichloroethene	4.20	96	105870	45.395	ug/L 100
22) 2-Butanone	4.24	43	199144	107.485	ug/L 98

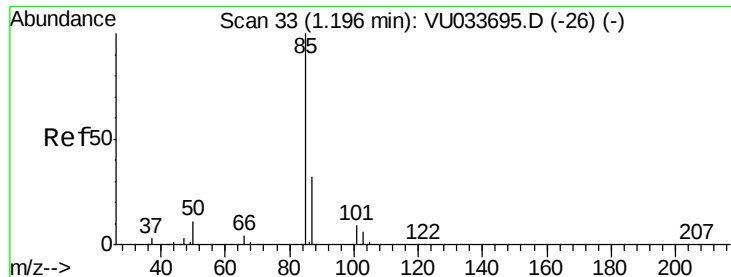
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU081019\
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 Quant Title : VOC Analysis
 QLast Update : Sat Aug 10 04:26:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.52	128	55324	46.104	ug/L	96
25) Chloroform	4.65	83	185829	46.169	ug/L	100
27) 1,2-Dichloroethane	5.38	62	146928	47.930	ug/L	99
29) Cyclohexane	4.97	56	153871	47.045	ug/L	97
30) 1,1,1-Trichloroethane	4.89	97	157242	46.751	ug/L	99
31) Carbon tetrachloride	5.11	117	138482	45.891	ug/L	99
33) Benzene	5.37	78	404049	46.843	ug/L	100
34) Trichloroethene	6.16	95	102830	45.182	ug/L	97
35) Methylcyclohexane	6.40	83	166518	48.066	ug/L	98
37) 1,2-Dichloropropane	6.41	63	110144	47.848	ug/L	99
38) Bromodichloromethane	6.74	83	139138	47.040	ug/L	96
39) cis-1,3-Dichloropropene	7.25	75	173881	47.532	ug/L	99
40) 4-Methyl-2-pentanone	7.44	43	333615	97.448	ug/L	97
42) Toluene	7.62	91	441692	47.334	ug/L	98
44) trans-1,3-Dichloropropene	7.86	75	153330	47.049	ug/L	98
45) 1,1,2-Trichloroethane	8.05	97	102189	45.410	ug/L	97
46) Tetrachloroethene	8.21	164	86968	46.356	ug/L	98
48) 2-Hexanone	8.34	43	277124	102.803	ug/L	99
49) Dibromochloromethane	8.46	129	116950	46.381	ug/L	100
50) 1,2-Dibromoethane	8.57	107	113795	45.736	ug/L	99
51) Chlorobenzene	9.10	112	284168	46.328	ug/L	99
52) Ethylbenzene	9.23	91	469645	46.008	ug/L	99
53) m,p-Xylene	9.36	106	178725	45.868	ug/L	95
54) o-xylene	9.76	106	177117	45.989	ug/L	99
55) Styrene	9.77	104	310767	48.086	ug/L	99
56) Isopropylbenzene	10.15	105	464449	45.954	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.44	83	185971	47.043	ug/L	99
59) 1,2,3-Trichloropropane	10.48	75	146642	47.121	ug/L	98
61) Bromoform	9.94	173	89641	43.644	ug/L	99
62) 1,3-Dichlorobenzene	11.40	146	231775	44.498	ug/L	98
63) 1,4-Dichlorobenzene	11.49	146	234757	44.497	ug/L	99
65) 1,2-Dichlorobenzene	11.86	146	234551	45.551	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.64	75	44741	45.991	ug/L	97
67) 1,3,5-Trichlorobenzene	12.87	180	184177	44.434	ug/L	99
68) 1,2,4-trichlorobenzene	13.49	180	164153	43.775	ug/L	99
69) Naphthalene	13.73	128	498715	44.401	ug/L	100
70) 1,2,3-Trichlorobenzene	13.97	180	170074	43.871	ug/L	97

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



#2

Dichlorodifluoromethane

Concen: 48.122 ug/L

RT: 1.20 min Scan# 33

Delta R.T. 0.00 min

Lab File: VU033719.D

Acq: 10 Aug 2019 10:16

Instrument :

MSVOA_U

ClientSampleId :

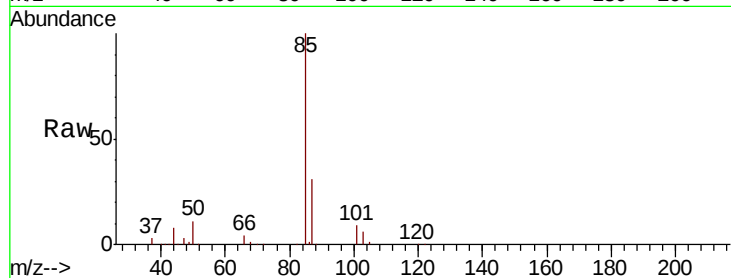
VSTD05058

Tgt Ion: 85 Resp: 113890

Ion Ratio Lower Upper

85 100

87 32.0 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VU033719.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU033719.D (-1) (-)

120000

100000

80000

60000

40000

20000

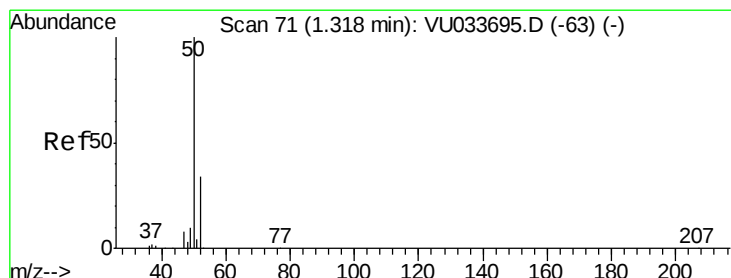
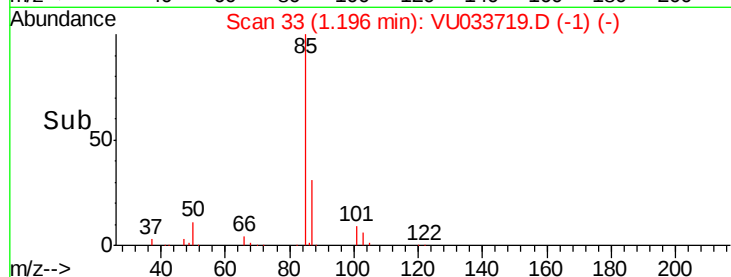
0

1.15

1.20

1.25

Time-->



#3

Chloromethane

Concen: 49.068 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU033719.D

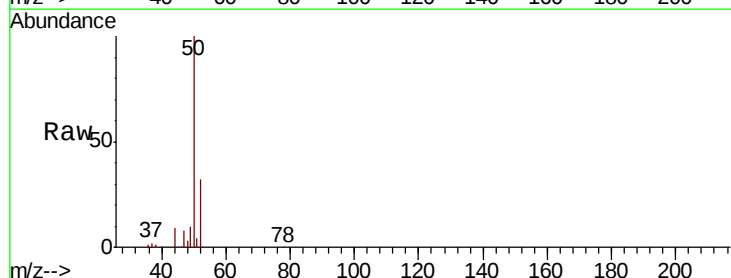
Acq: 10 Aug 2019 10:16

Tgt Ion: 50 Resp: 120281

Ion Ratio Lower Upper

50 100

52 32.3 23.0 42.8



Abundance Ion 50.00 (49.70 to 50.70): VU033719.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU033719.D (-1) (-)

120000

100000

80000

60000

40000

20000

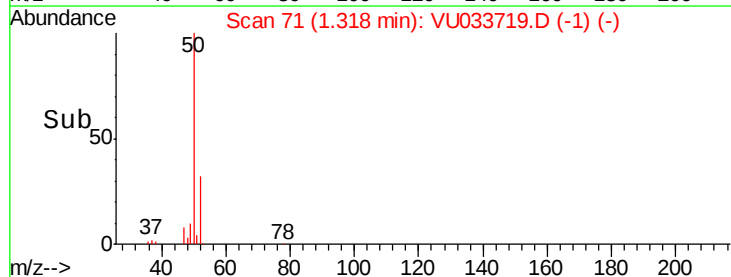
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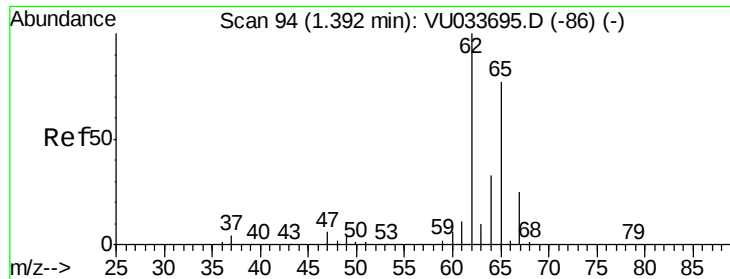
1.30

1.32

1.35

Time-->





#5

Vinyl chloride

Concen: 47.489 ug/L

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU033719.D

Acq: 10 Aug 2019 10:16

Instrument :

MSVOA_U

ClientSampleId :

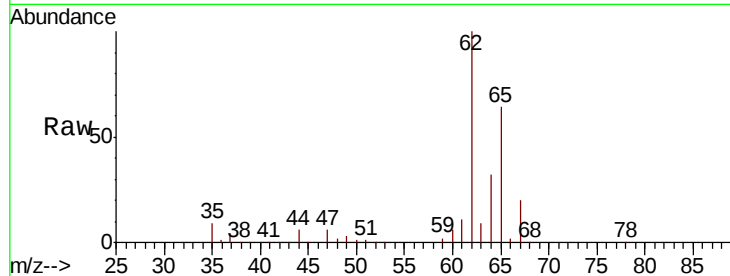
VSTD05058

Tgt Ion: 62 Resp: 129693

Ion Ratio Lower Upper

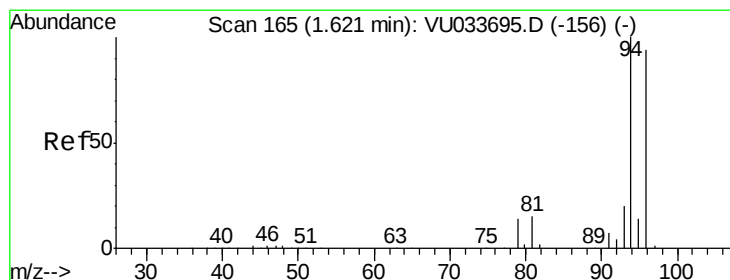
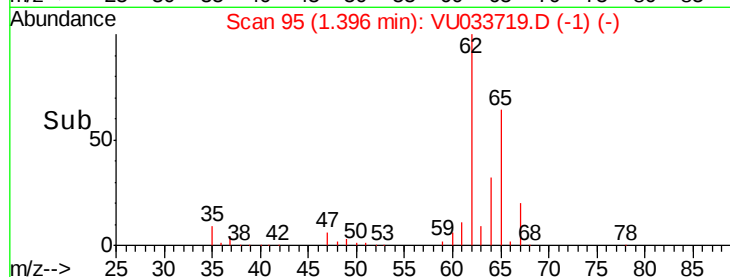
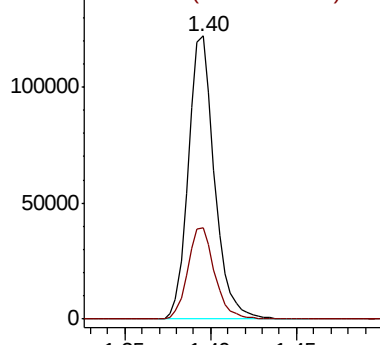
62 100

64 32.4 23.7 43.9



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 35.814 ug/L

RT: 1.62 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU033719.D

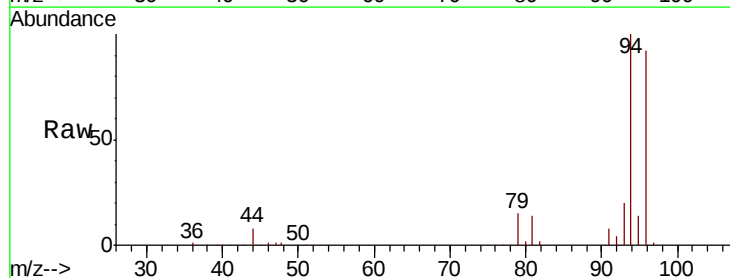
Acq: 10 Aug 2019 10:16

Tgt Ion: 94 Resp: 79354

Ion Ratio Lower Upper

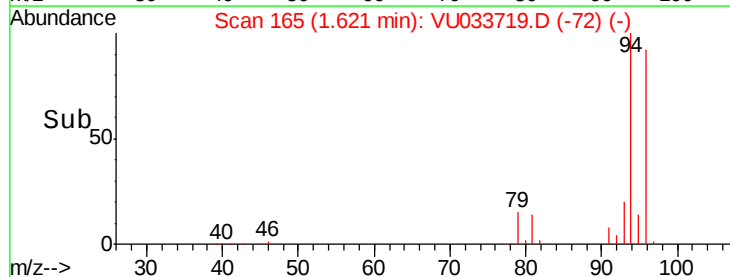
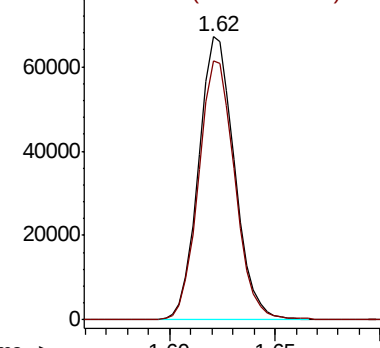
94 100

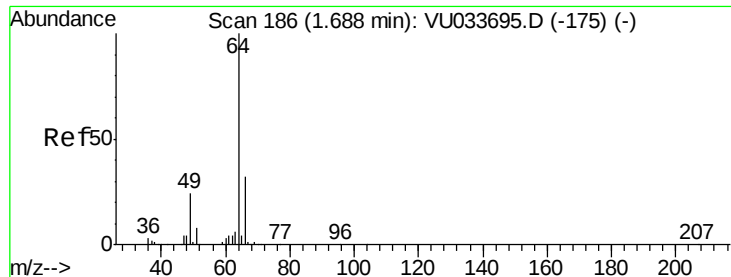
96 91.6 65.0 120.6



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 47.113 ug/L

RT: 1.69 min Scan# 186

Delta R.T. 0.00 min

Lab File: VU033719.D

Acq: 10 Aug 2019 10:16

Instrument :

MSVOA_U

ClientSampleId :

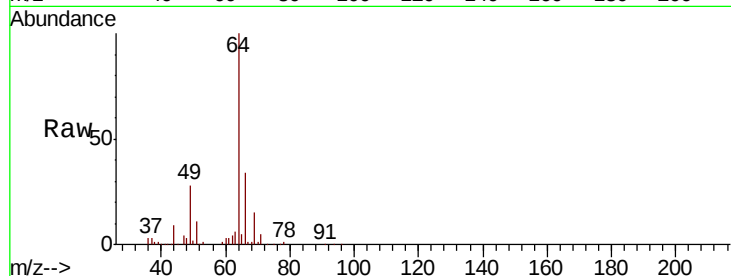
VSTD05058

Tgt Ion: 64 Resp: 97952

Ion Ratio Lower Upper

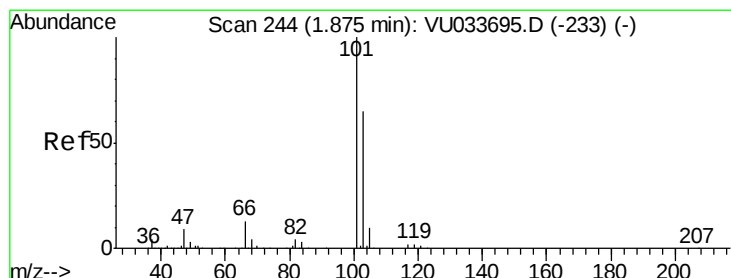
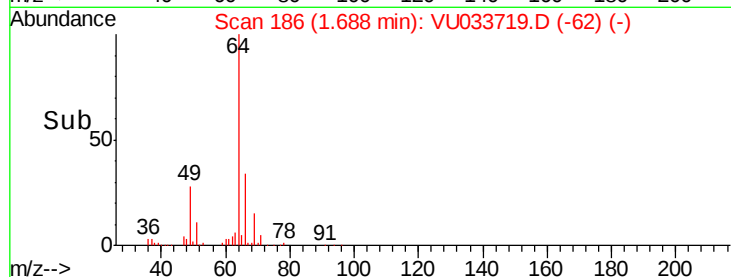
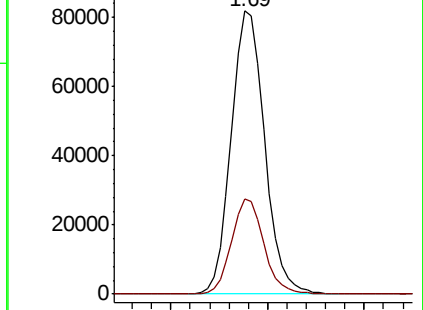
64 100

66 33.6 22.0 41.0



Abundance Ion 64.00 (63.70 to 64.70): VU033719.D (-175) (-)

Ion 66.00 (65.70 to 66.70): VU033719.D (-175) (-)



#9

Trichlorofluoromethane

Concen: 47.950 ug/L

RT: 1.87 min Scan# 244

Delta R.T. 0.00 min

Lab File: VU033719.D

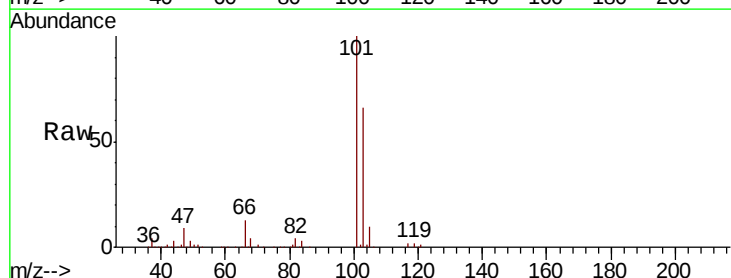
Acq: 10 Aug 2019 10:16

Tgt Ion: 101 Resp: 177570

Ion Ratio Lower Upper

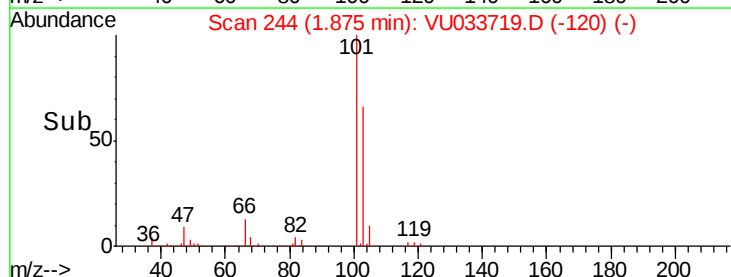
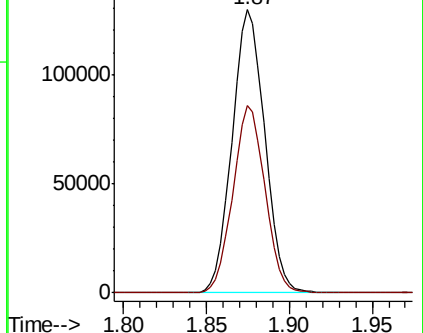
101 100

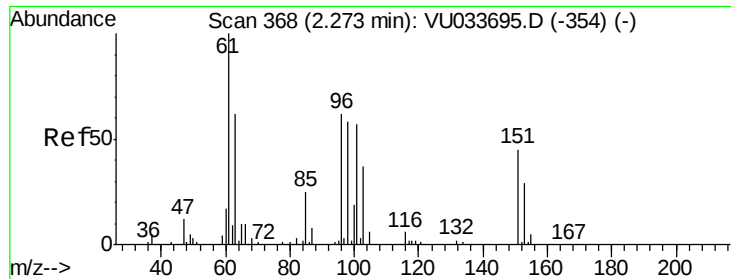
103 64.8 51.0 76.6



Abundance Ion 101.00 (100.70 to 101.70): VU033719.D (-233) (-)

Ion 103.00 (102.70 to 103.70): VU033719.D (-233) (-)





#10

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

Concen: 48.740 ug/L

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU033719.D

Acq: 10 Aug 2019 10:16

Instrument :

MSVOA_U

ClientSampleId :

VSTD05058

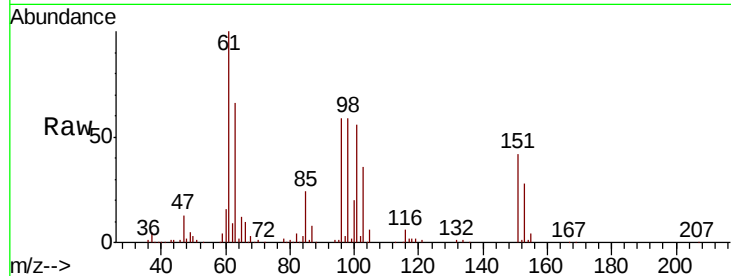
Tgt Ion:101 Resp: 94660

Ion Ratio Lower Upper

101 100

85 44.2 34.5 51.7

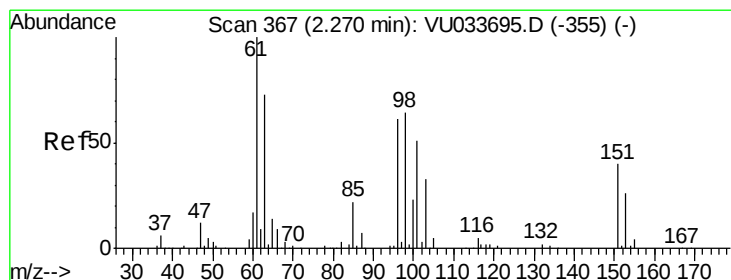
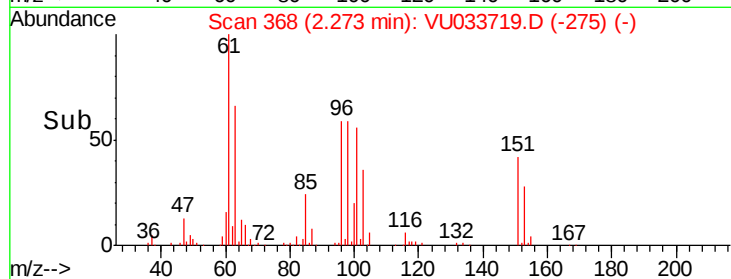
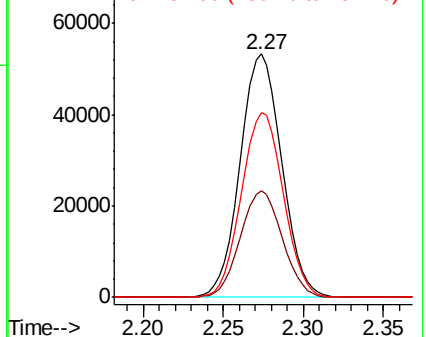
151 76.5 63.0 94.4



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: 46.505 ug/L

RT: 2.27 min Scan# 367

Delta R.T. 0.00 min

Lab File: VU033719.D

Acq: 10 Aug 2019 10:16

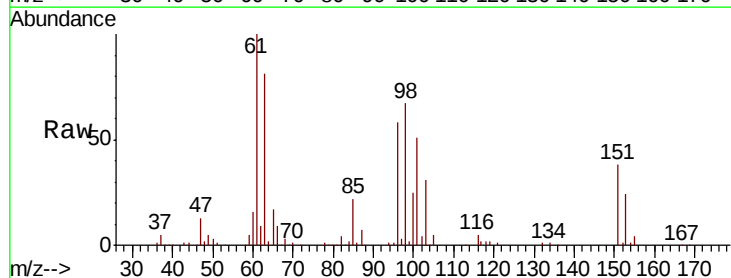
Tgt Ion: 96 Resp: 88719

Ion Ratio Lower Upper

96 100

61 173.7 118.2 219.6

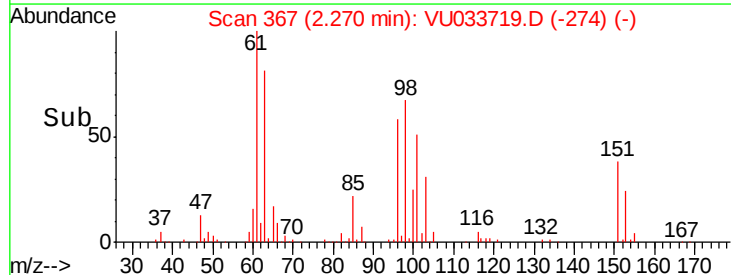
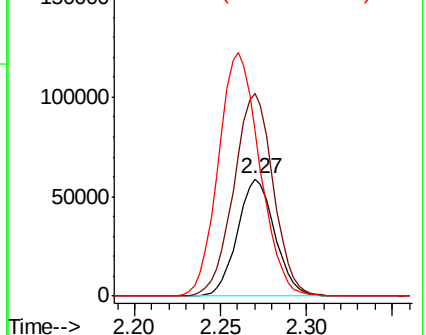
63 141.0 90.7 168.5

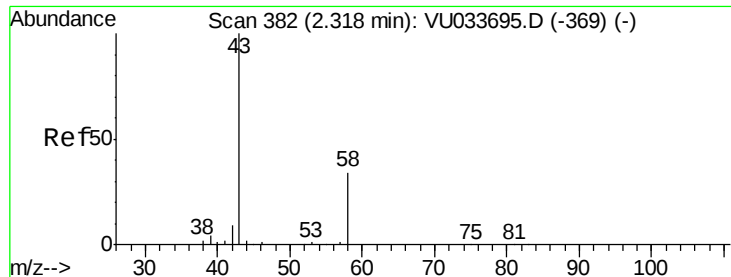


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 116.358 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

Lab File: VU033719.D

Acq: 10 Aug 2019 10:16

Instrument :

MSVOA_U

ClientSampleId :

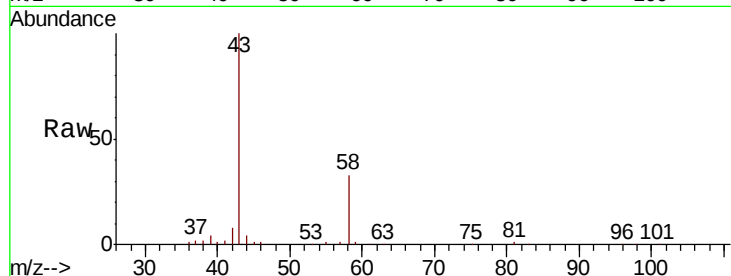
VSTD05058

Tgt Ion: 43 Resp: 173211

Ion Ratio Lower Upper

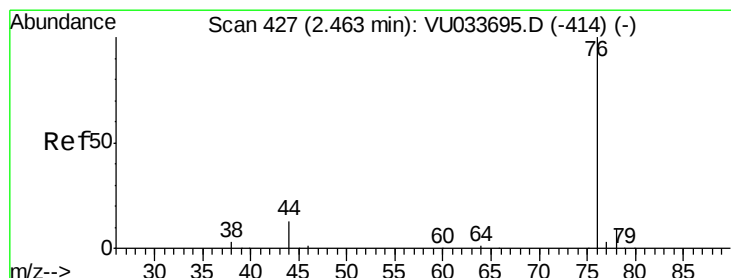
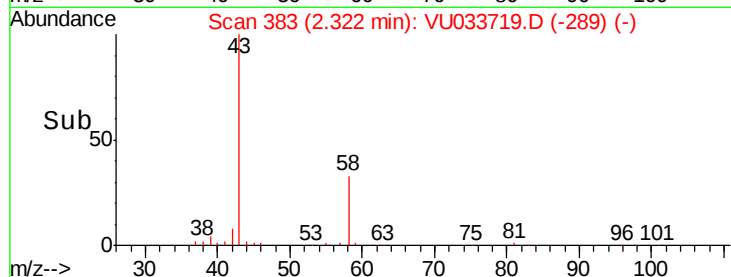
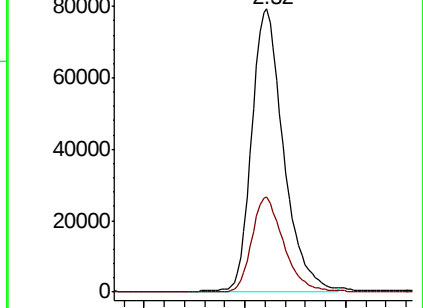
43 100

58 33.9 0.0 65.6



Abundance Ion 43.00 (42.70 to 43.70): VU033719.D (-289) (-)

Ion 58.00 (57.70 to 58.70): VU033719.D (-289) (-)



#14

Carbon disulfide

Concen: 47.332 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU033719.D

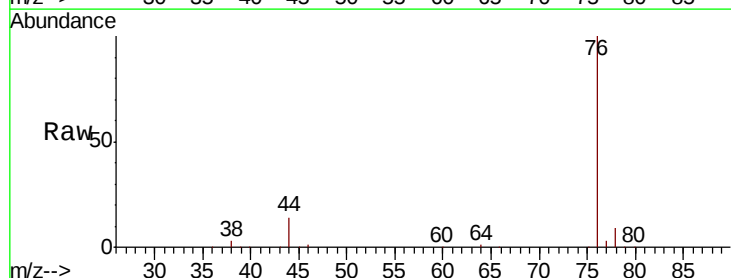
Acq: 10 Aug 2019 10:16

Tgt Ion: 76 Resp: 253484

Ion Ratio Lower Upper

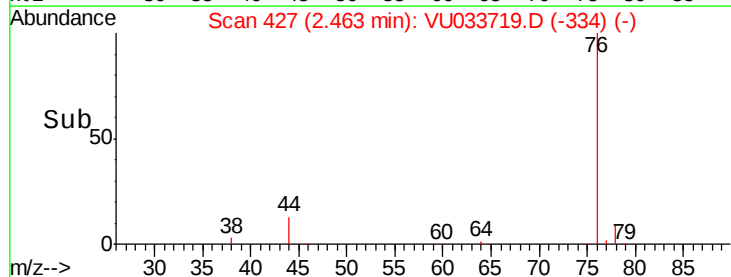
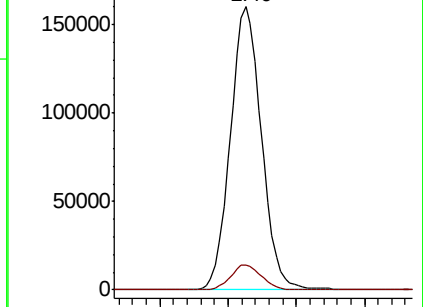
76 100

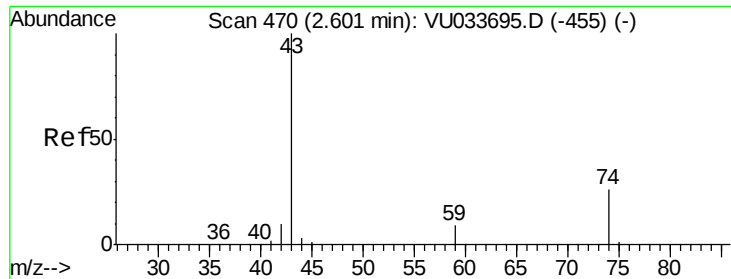
78 8.9 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VU033719.D (-334) (-)

Ion 78.00 (77.70 to 78.70): VU033719.D (-334) (-)

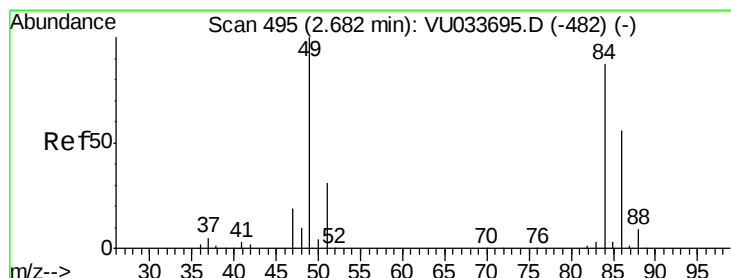
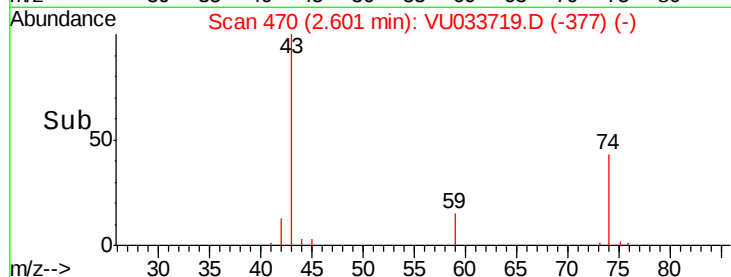
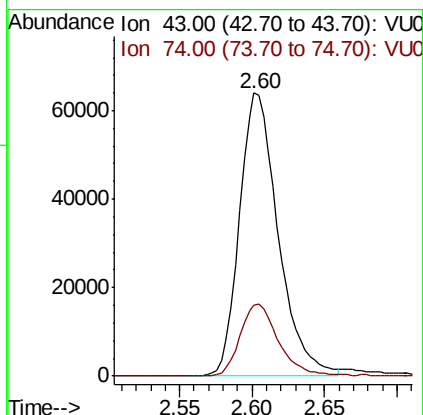
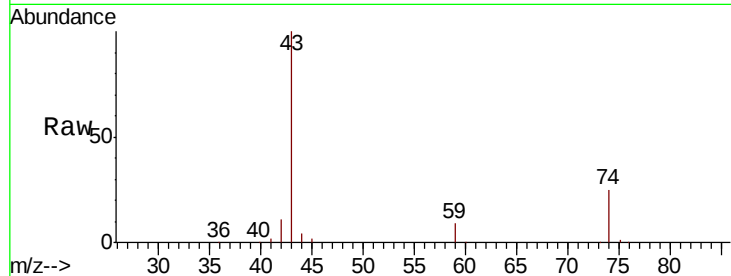




#15
Methyl Acetate
Concen: 47.957 ug/L
RT: 2.60 min Scan# 470
Delta R.T. 0.00 min
Lab File: VU033719.D
Acq: 10 Aug 2019 10:16

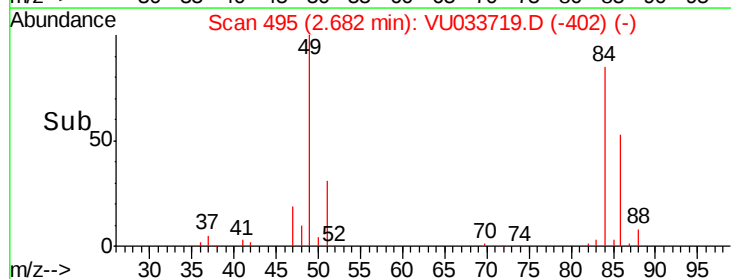
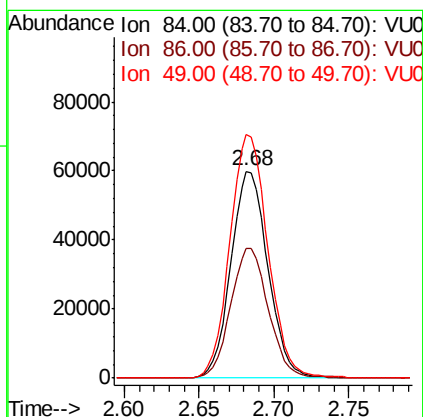
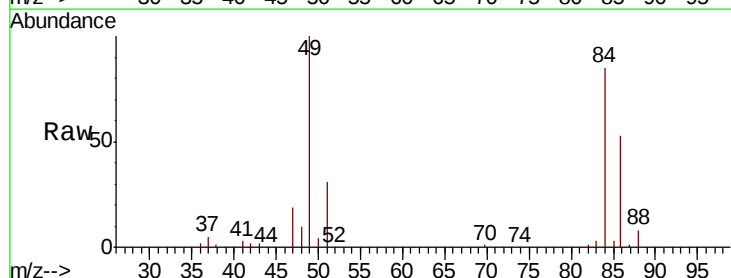
Instrument :
MSVOA_U
ClientSampleId :
VSTD05058

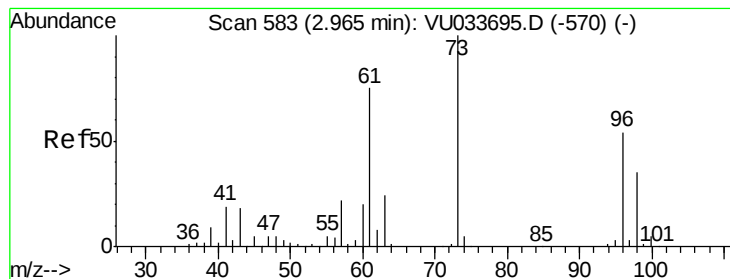
Tgt Ion: 43 Resp: 118946
Ion Ratio Lower Upper
43 100
74 25.2 20.8 31.2



#16
Methylene chloride
Concen: 46.685 ug/L
RT: 2.68 min Scan# 495
Delta R.T. 0.00 min
Lab File: VU033719.D
Acq: 10 Aug 2019 10:16

Tgt Ion: 84 Resp: 103341
Ion Ratio Lower Upper
84 100
86 62.5 44.3 82.3
49 117.9 82.3 152.9





#17

trans-1,2-Dichloroethene

Concen: 46.108 ug/L

RT: 2.96 min Scan# 583

Delta R.T. 0.00 min

Lab File: VU033719.D

Acq: 10 Aug 2019 10:16

Instrument :

MSVOA_U

ClientSampleId :

VSTD05058

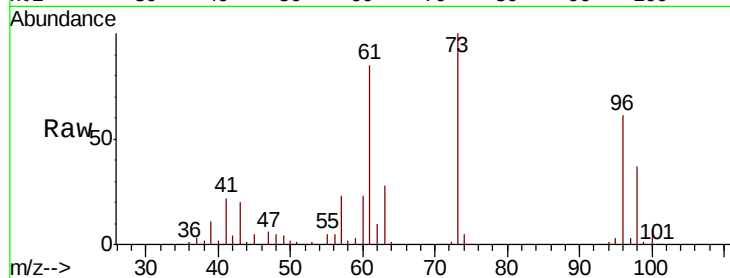
Tgt Ion: 96 Resp: 94274

Ion Ratio Lower Upper

96 100

61 138.2 95.6 177.6

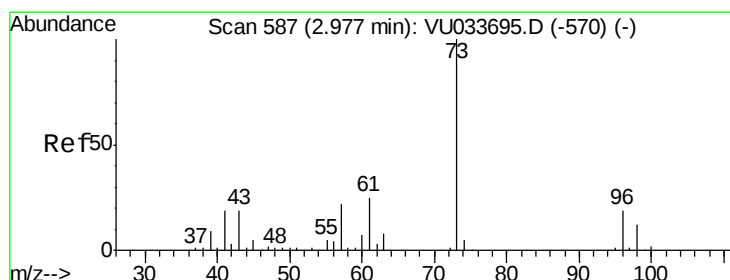
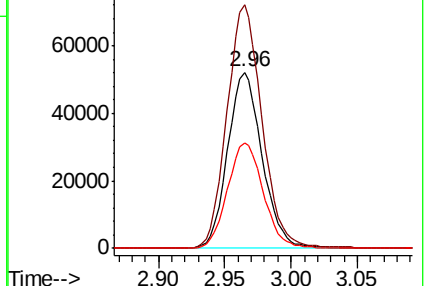
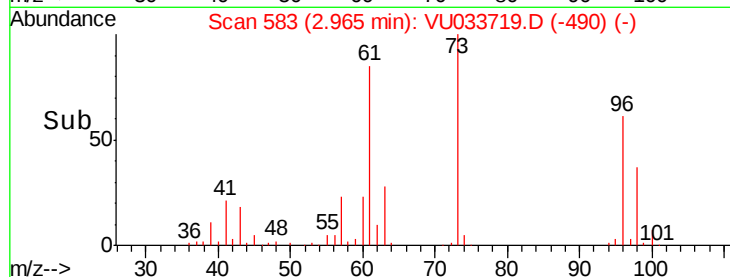
98 60.1 44.6 82.8



Abundance Ion 96.00 (95.70 to 96.70): VU033719.D (-490) (-)

Ion 61.00 (60.70 to 61.70): VU033719.D (-490) (-)

Ion 98.00 (97.70 to 98.70): VU033719.D (-490) (-)



#18

Methyl tert-butyl Ether

Concen: 44.954 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU033719.D

Acq: 10 Aug 2019 10:16

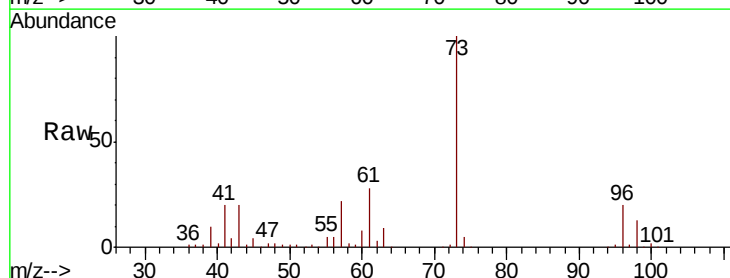
Tgt Ion: 73 Resp: 300628

Ion Ratio Lower Upper

73 100

43 19.2 15.1 22.7

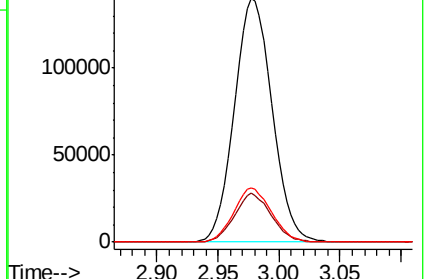
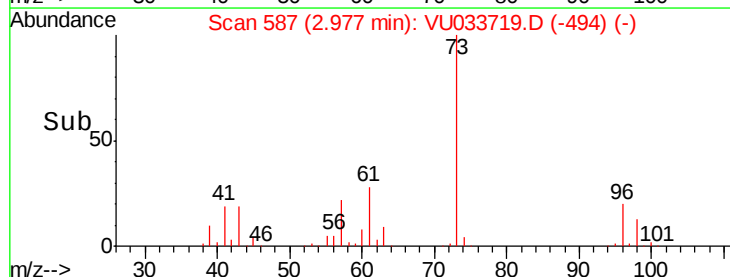
57 22.1 17.4 26.0

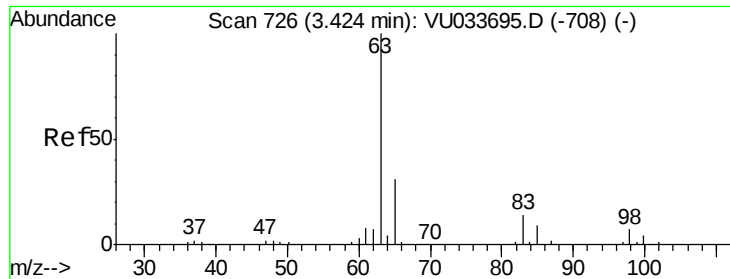


Abundance Ion 73.00 (72.70 to 73.70): VU033719.D (-494) (-)

Ion 43.00 (42.70 to 43.70): VU033719.D (-494) (-)

Ion 57.00 (56.70 to 57.70): VU033719.D (-494) (-)

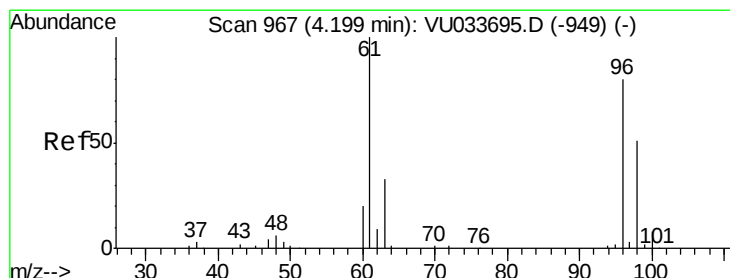
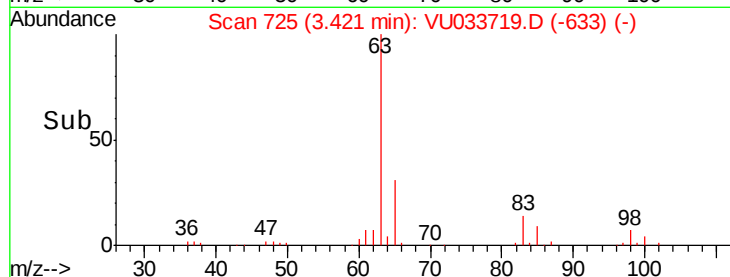
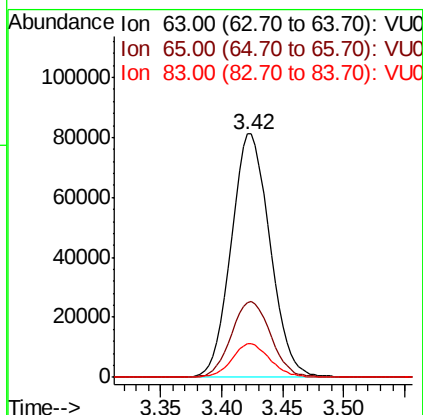
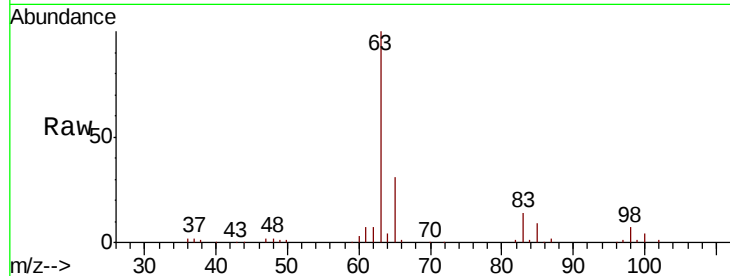




#19
 1,1-Dichloroethane
 Concen: 46.536 ug/L
 RT: 3.42 min Scan# 725
 Delta R.T. -0.00 min
 Lab File: VU033719.D
 Acq: 10 Aug 2019 10:16

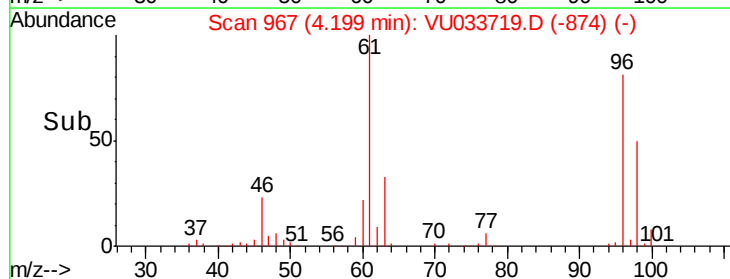
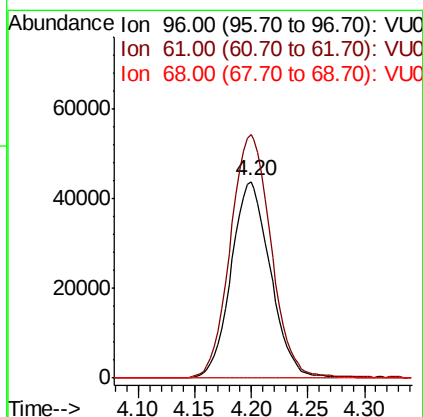
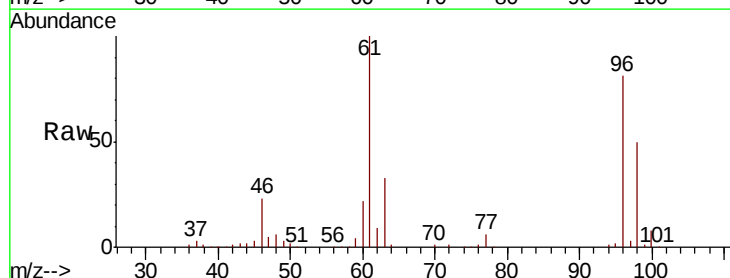
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05058

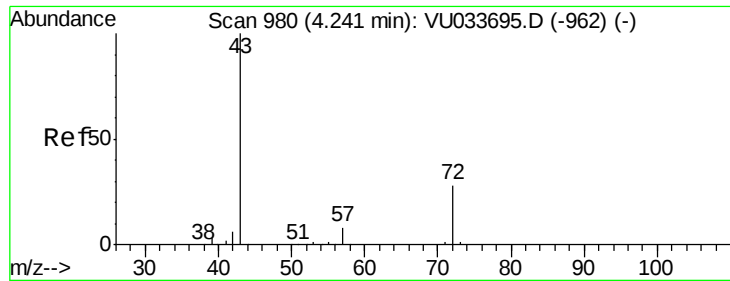
Tgt Ion: 63 Resp: 179560
 Ion Ratio Lower Upper
 63 100
 65 30.8 22.3 41.3
 83 13.7 9.7 18.1



#20
 cis-1,2-Dichloroethene
 Concen: 45.395 ug/L
 RT: 4.20 min Scan# 967
 Delta R.T. 0.00 min
 Lab File: VU033719.D
 Acq: 10 Aug 2019 10:16

Tgt Ion: 96 Resp: 105870
 Ion Ratio Lower Upper
 96 100
 61 123.9 87.0 161.6
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 107.485 ug/L

RT: 4.24 min Scan# 980

Delta R.T. 0.00 min

Lab File: VU033719.D

Acq: 10 Aug 2019 10:16

Instrument :

MSVOA_U

ClientSampleId :

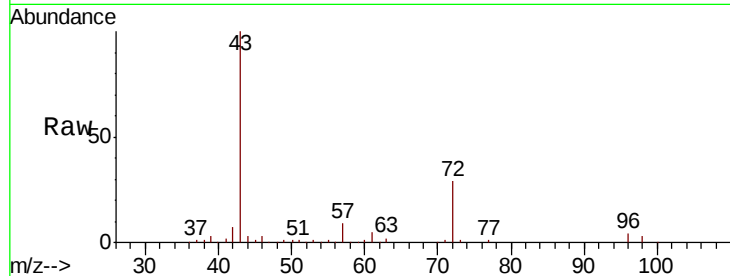
VSTD05058

Tgt Ion: 43 Resp: 199144

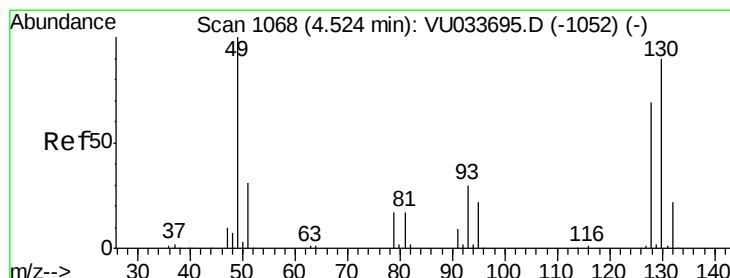
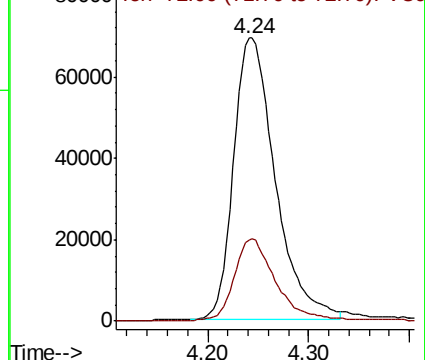
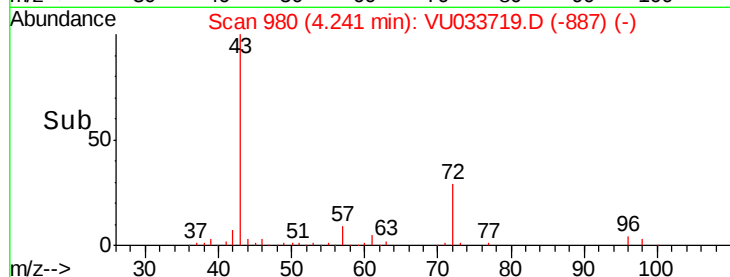
Ion Ratio Lower Upper

43 100

72 29.2 15.2 45.6



Abundance Ion 43.00 (42.70 to 43.70): VU033719.D (-887) (-)



#23

Bromochloromethane

Concen: 46.104 ug/L

RT: 4.52 min Scan# 1068

Delta R.T. 0.00 min

Lab File: VU033719.D

Acq: 10 Aug 2019 10:16

Tgt Ion: 128 Resp: 55324

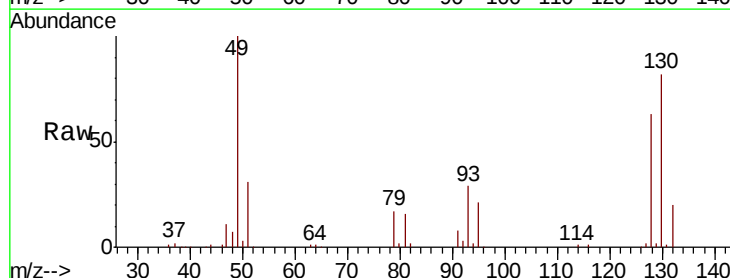
Ion Ratio Lower Upper

128 100

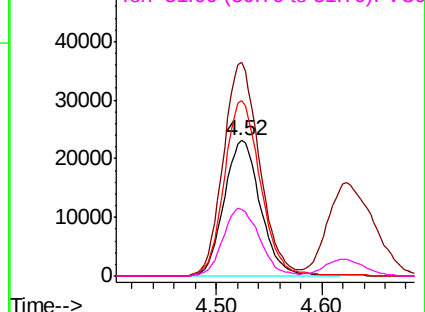
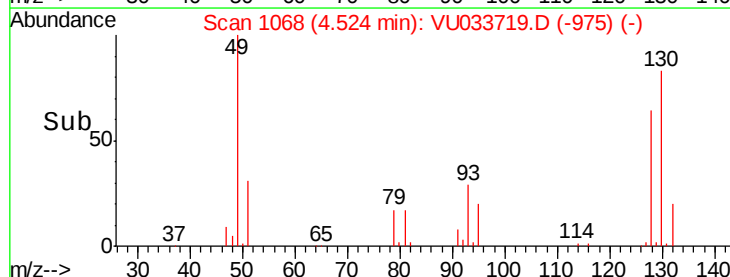
49 158.1 104.7 194.4

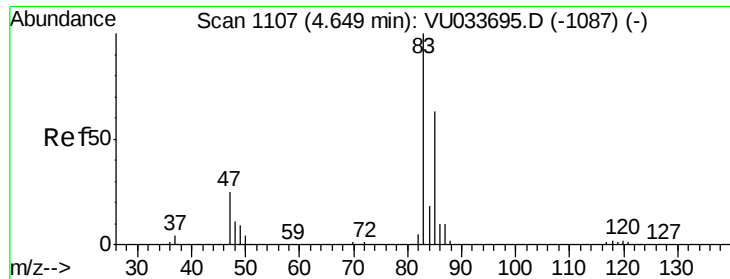
130 129.6 89.6 166.4

51 49.7 37.4 56.0



Abundance Ion 128.00 (127.70 to 128.70): VU033719.D (-975) (-)

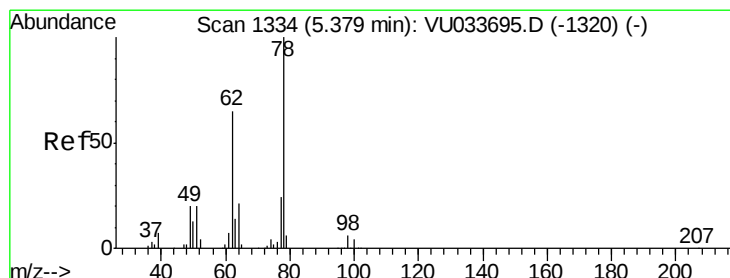
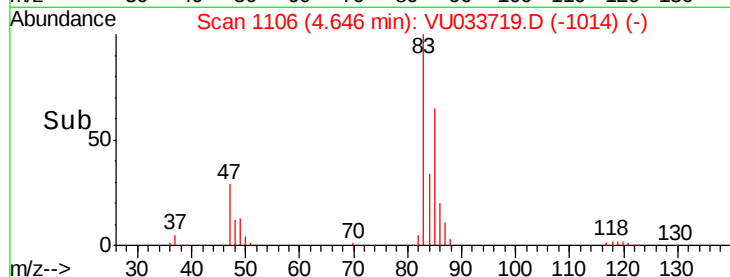
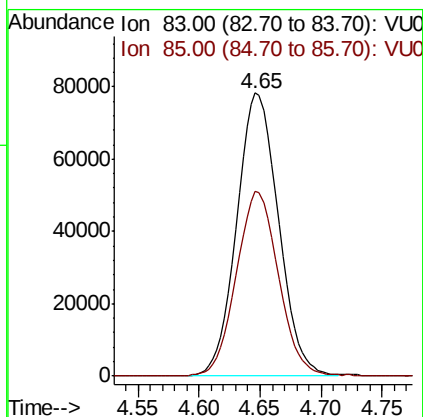
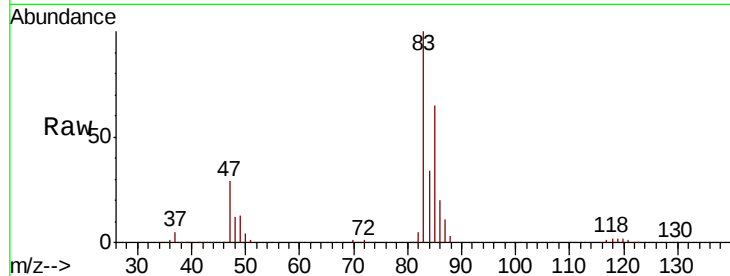




#25
Chloroform
Concen: 46.169 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. -0.00 min
Lab File: VU033719.D
Acq: 10 Aug 2019 10:16

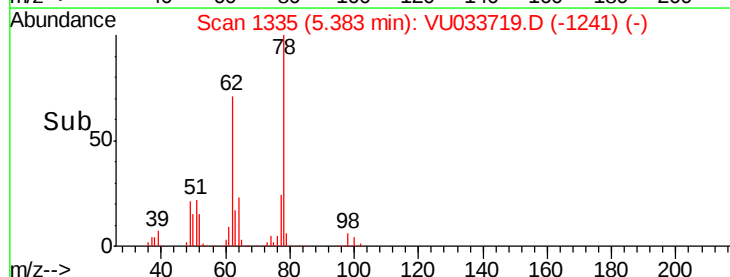
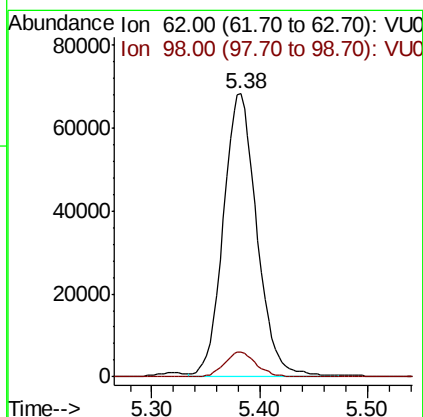
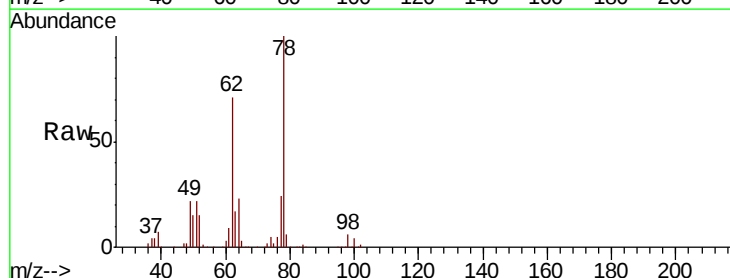
Instrument :
MSVOA_U
ClientSampleId :
VSTD05058

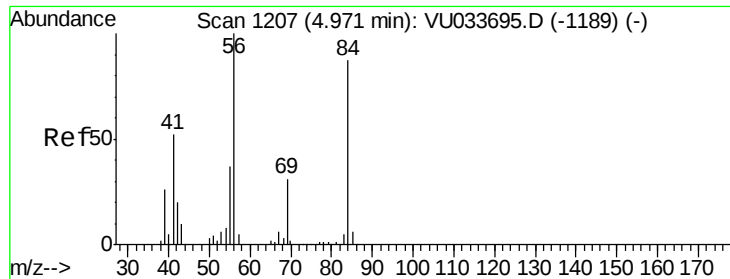
Tgt Ion: 83 Resp: 185829
Ion Ratio Lower Upper
83 100
85 65.3 45.9 85.3



#27
1,2-Dichloroethane
Concen: 47.930 ug/L
RT: 5.38 min Scan# 1335
Delta R.T. 0.00 min
Lab File: VU033719.D
Acq: 10 Aug 2019 10:16

Tgt Ion: 62 Resp: 146928
Ion Ratio Lower Upper
62 100
98 8.8 7.4 11.2

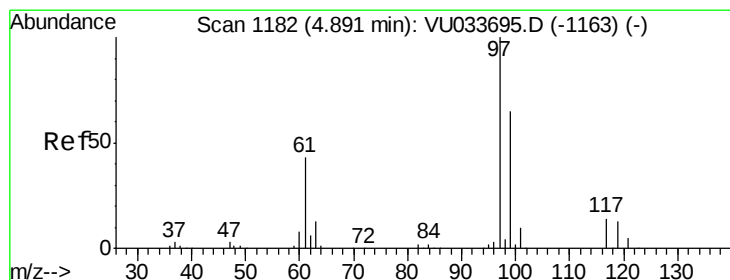
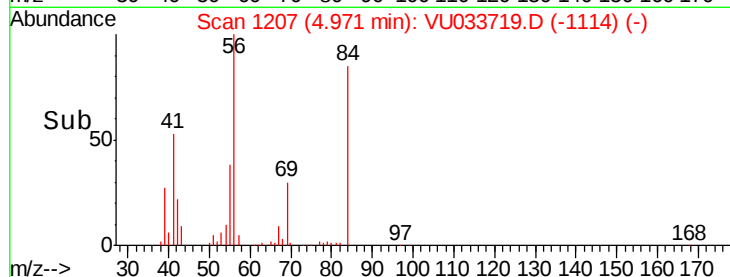
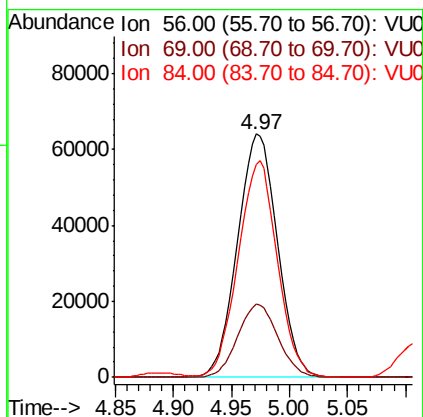
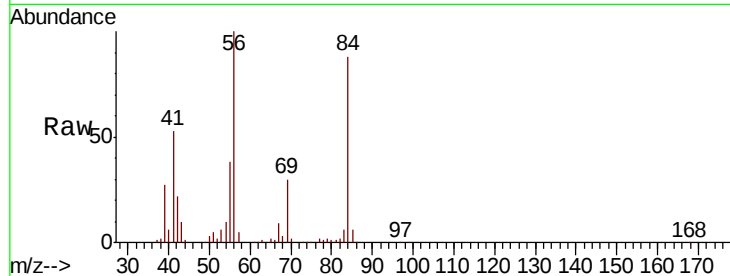




#29
Cyclohexane
Concen: 47.045 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. 0.00 min
Lab File: VU033719.D
Acq: 10 Aug 2019 10:16

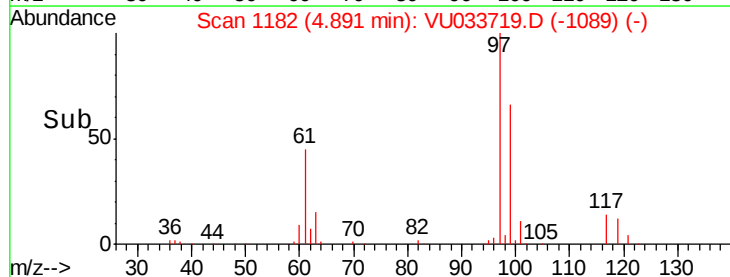
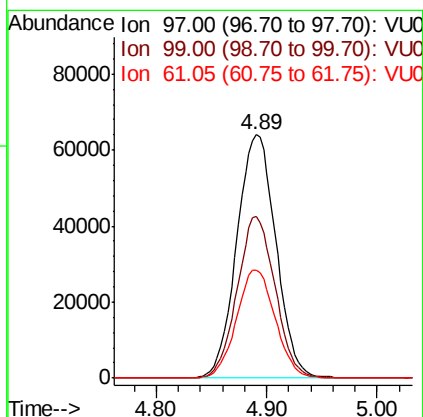
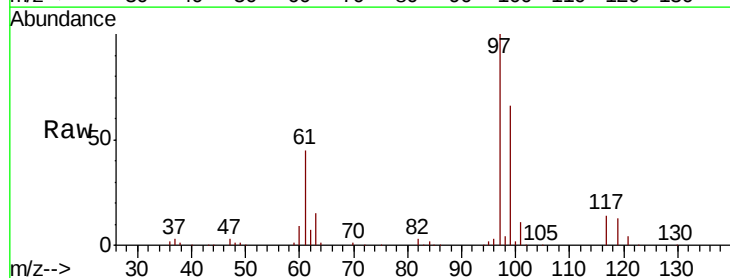
Instrument :
MSVOA_U
ClientSampleId :
VSTD05058

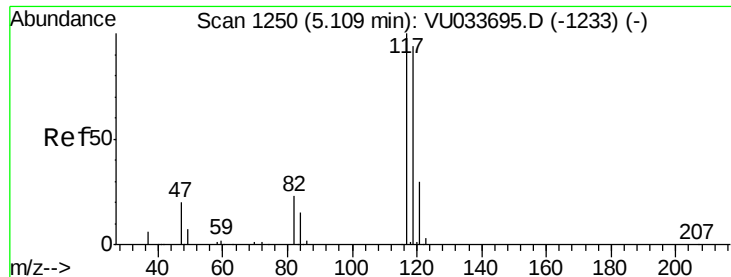
Tgt Ion: 56 Resp: 153871
Ion Ratio Lower Upper
56 100
69 30.1 25.3 37.9
84 87.2 71.8 107.8



#30
1,1,1-Trichloroethane
Concen: 46.751 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VU033719.D
Acq: 10 Aug 2019 10:16

Tgt Ion: 97 Resp: 157242
Ion Ratio Lower Upper
97 100
99 64.5 52.0 78.0
61 44.3 35.0 52.4





#31

Carbon tetrachloride

Concen: 45.891 ug/L

RT: 5.11 min Scan# 1251

Delta R.T. 0.00 min

Lab File: VU033719.D

Acq: 10 Aug 2019 10:16

Instrument :

MSVOA_U

ClientSampleId :

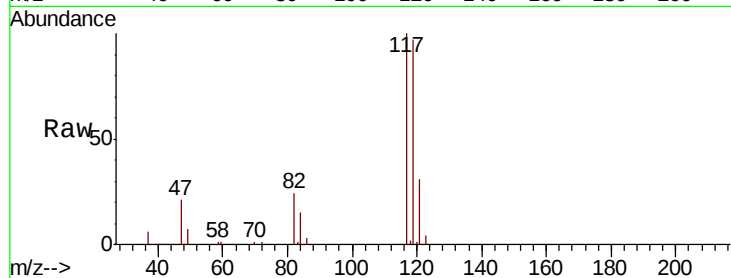
VSTD05058

Tgt Ion:117 Resp: 138482

Ion Ratio Lower Upper

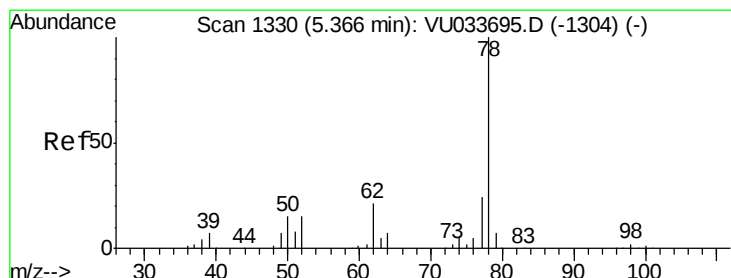
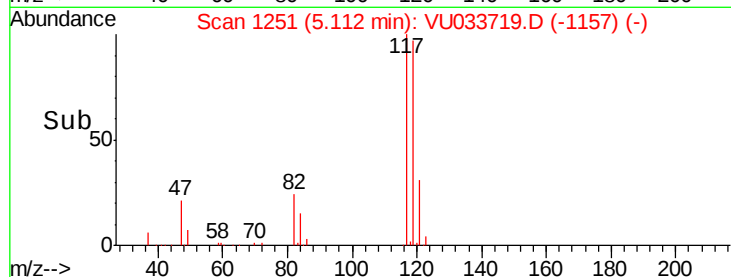
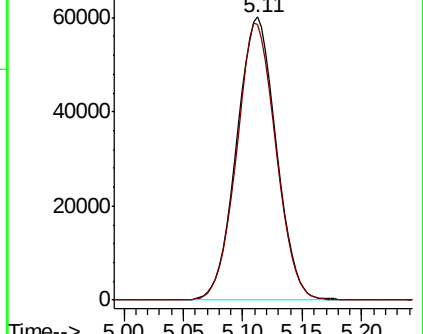
117 100

119 96.8 78.2 117.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 46.843 ug/L

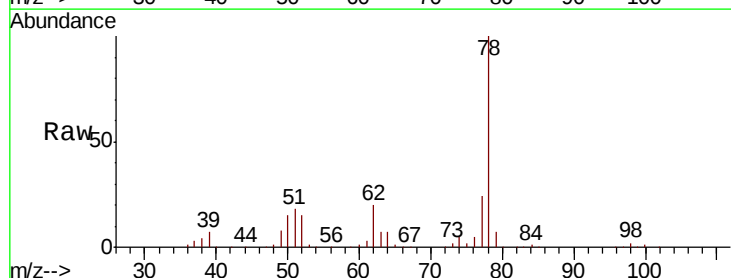
RT: 5.37 min Scan# 1330

Delta R.T. 0.00 min

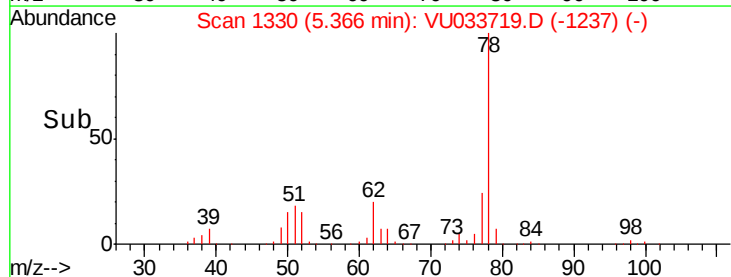
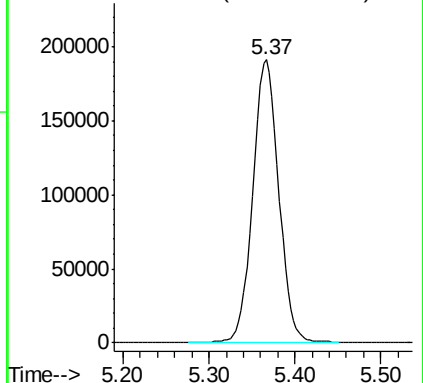
Lab File: VU033719.D

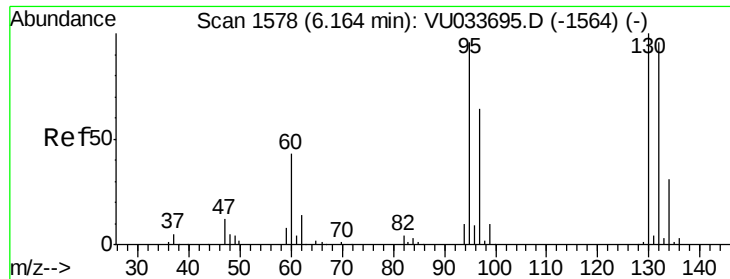
Acq: 10 Aug 2019 10:16

Tgt Ion: 78 Resp: 404049



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 45.182 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VU033719.D

Acq: 10 Aug 2019 10:16

Instrument :

MSVOA_U

ClientSampleId :

VSTD05058

Tgt Ion: 95 Resp: 102830

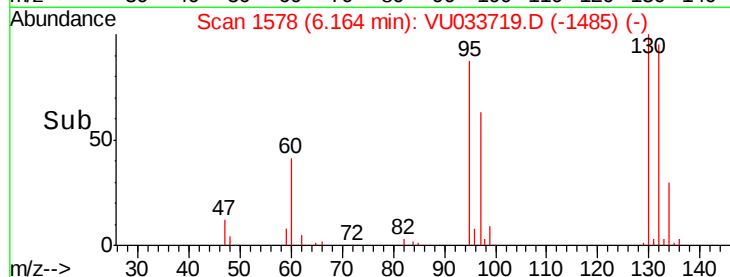
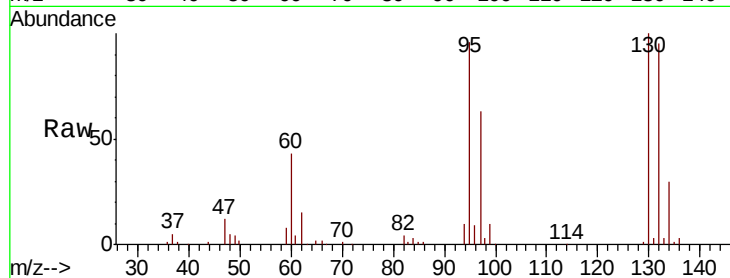
Ion Ratio Lower Upper

95 100

97 65.9 45.6 84.8

132 98.7 72.0 133.8

130 104.1 74.3 138.1



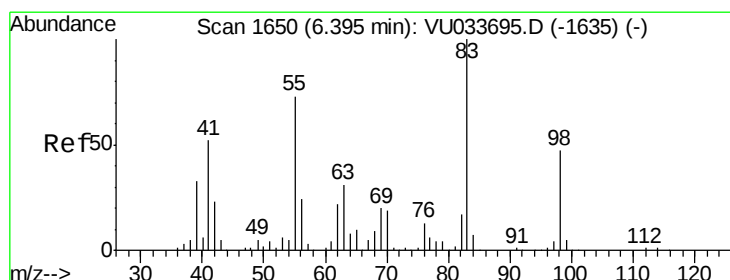
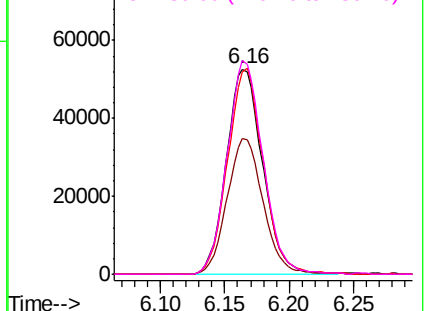
Abundance

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: 48.066 ug/L

RT: 6.40 min Scan# 1650

Delta R.T. 0.00 min

Lab File: VU033719.D

Acq: 10 Aug 2019 10:16

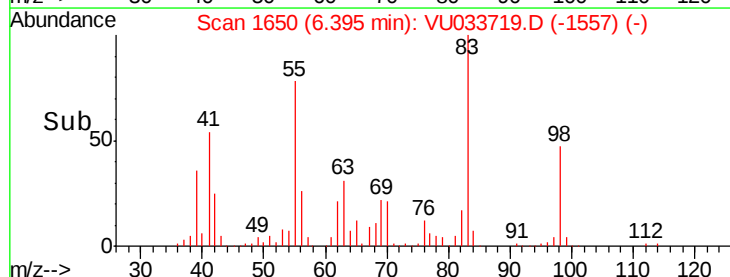
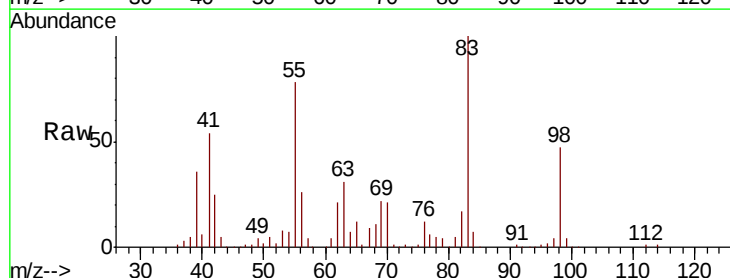
Tgt Ion: 83 Resp: 166518

Ion Ratio Lower Upper

83 100

55 75.5 58.1 87.1

98 46.0 36.8 55.2

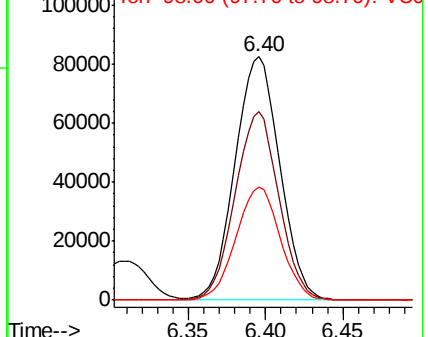


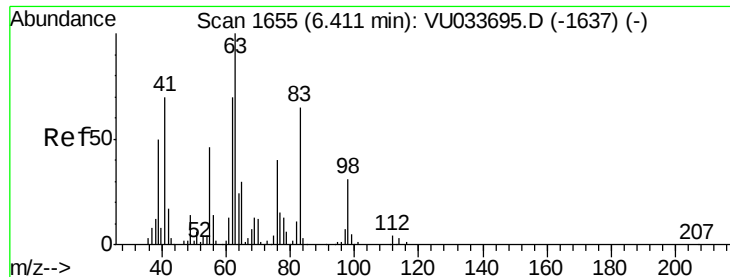
Abundance

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: 47.848 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU033719.D

Acq: 10 Aug 2019 10:16

Instrument :

MSVOA_U

ClientSampleId :

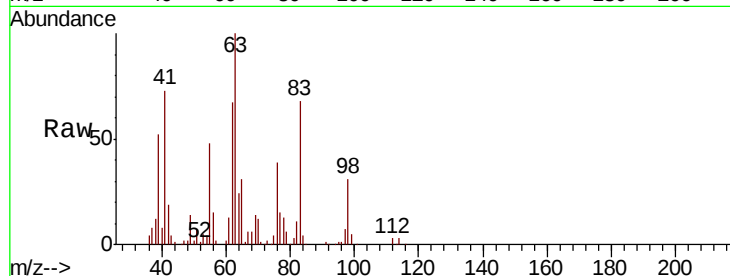
VSTD05058

Tgt Ion: 63 Resp: 110144

Ion Ratio Lower Upper

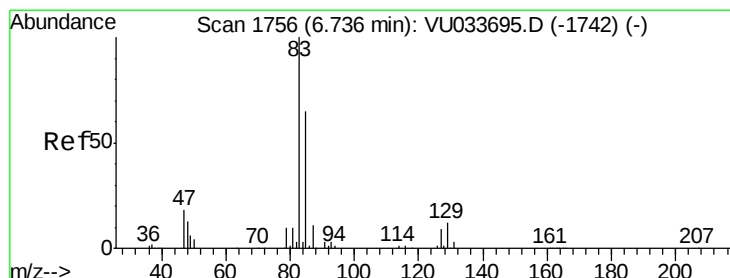
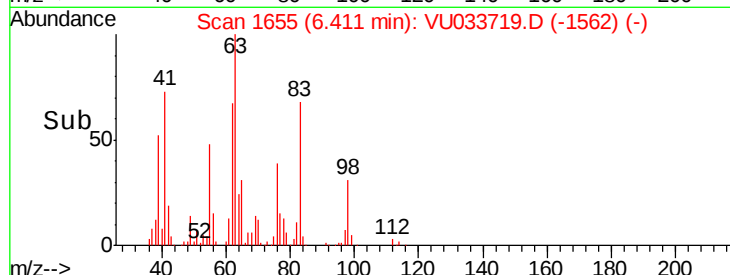
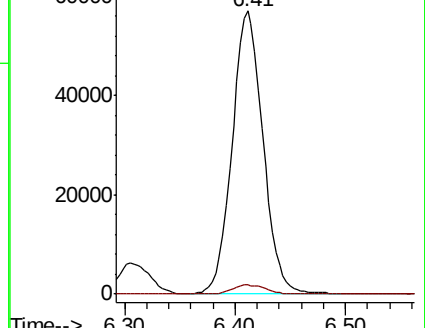
63 100

112 3.5 3.1 4.7



Abundance Ion 63.00 (62.70 to 63.70): VU033719.D (-1637) (-)

Ion 112.00 (111.70 to 112.70): VU033719.D (-1637) (-)



#38

Bromodichloromethane

Concen: 47.040 ug/L

RT: 6.74 min Scan# 1756

Delta R.T. 0.00 min

Lab File: VU033719.D

Acq: 10 Aug 2019 10:16

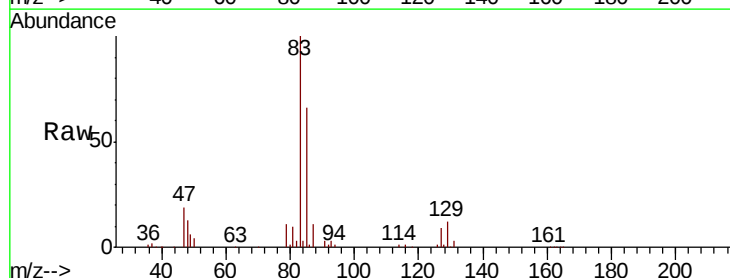
Tgt Ion: 83 Resp: 139138

Ion Ratio Lower Upper

83 100

85 66.1 44.2 82.0

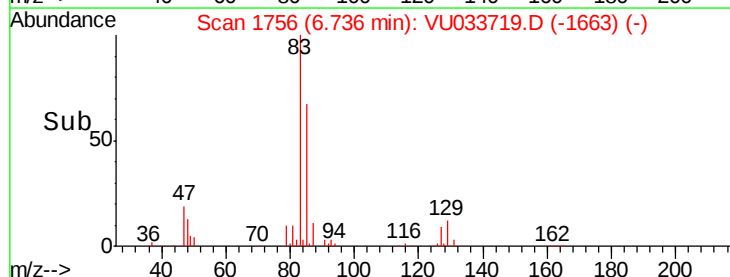
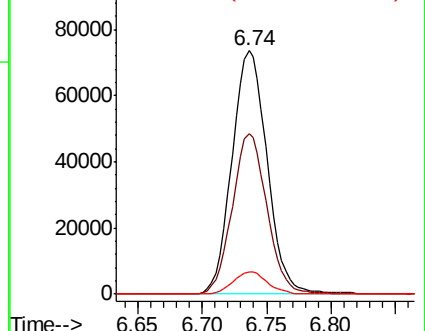
127 9.0 6.8 10.2

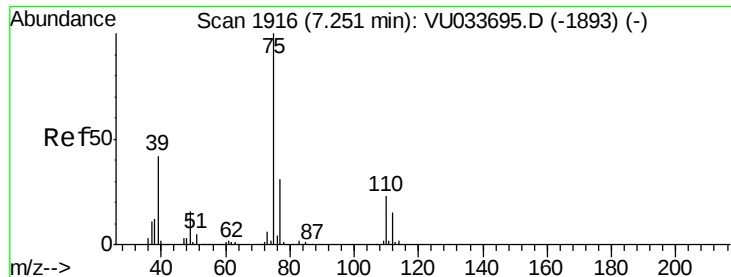


Abundance Ion 83.00 (82.70 to 83.70): VU033719.D (-1663) (-)

Ion 85.00 (84.70 to 85.70): VU033719.D (-1663) (-)

Ion 127.00 (126.70 to 127.70): VU033719.D (-1663) (-)

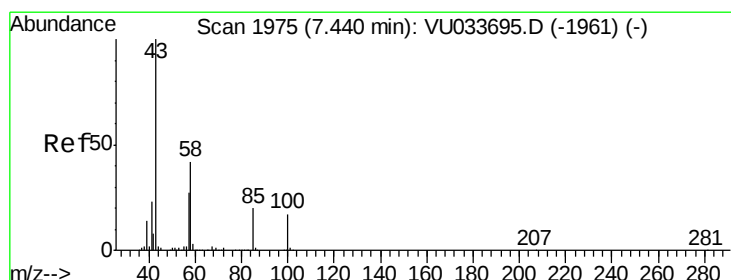
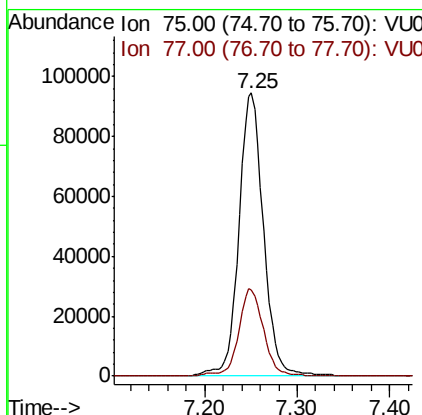
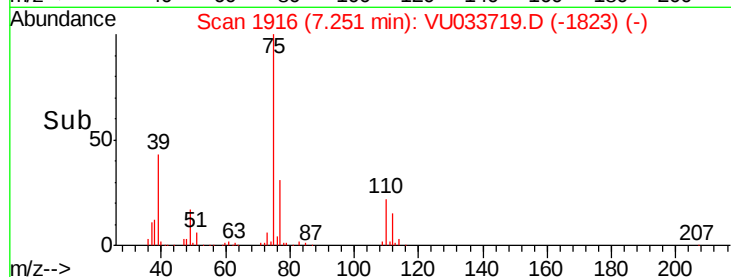
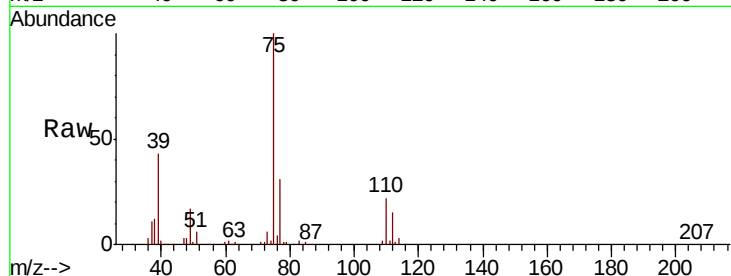




#39
 cis-1,3-Dichloropropene
 Concen: 47.532 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. 0.00 min
 Lab File: VU033719.D
 Acq: 10 Aug 2019 10:16

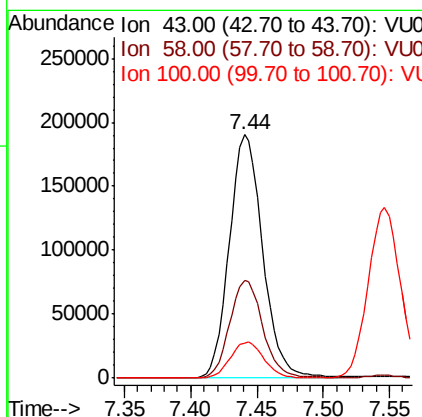
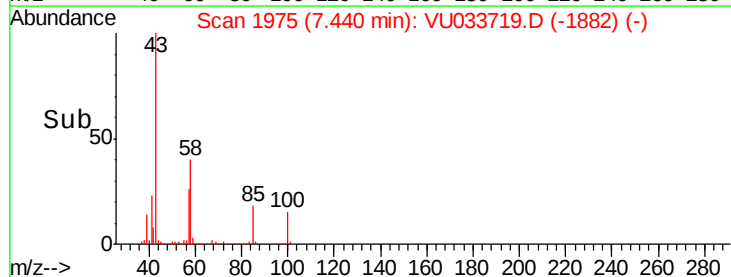
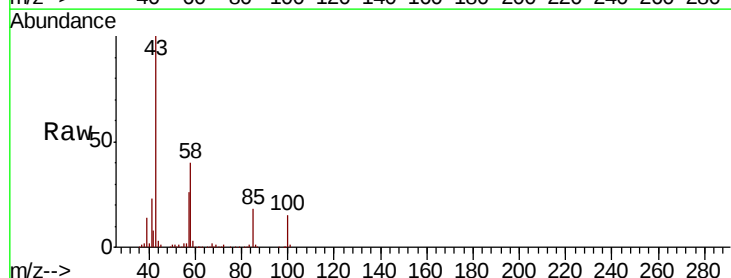
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05058

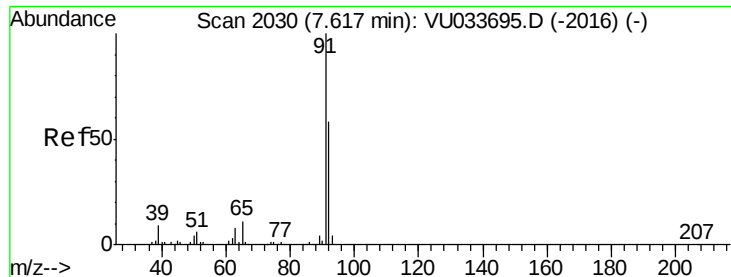
Tgt Ion: 75 Resp: 173881
 Ion Ratio Lower Upper
 75 100
 77 30.7 21.7 40.3



#40
 4-Methyl-2-pentanone
 Concen: 97.448 ug/L
 RT: 7.44 min Scan# 1975
 Delta R.T. 0.00 min
 Lab File: VU033719.D
 Acq: 10 Aug 2019 10:16

Tgt Ion: 43 Resp: 333615
 Ion Ratio Lower Upper
 43 100
 58 40.0 33.4 50.0
 100 15.0 13.2 19.8





#42

Toluene

Concen: 47.334 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU033719.D

Acq: 10 Aug 2019 10:16

Instrument :

MSVOA_U

ClientSampleId :

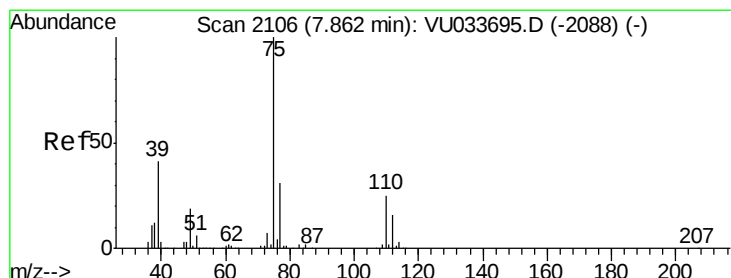
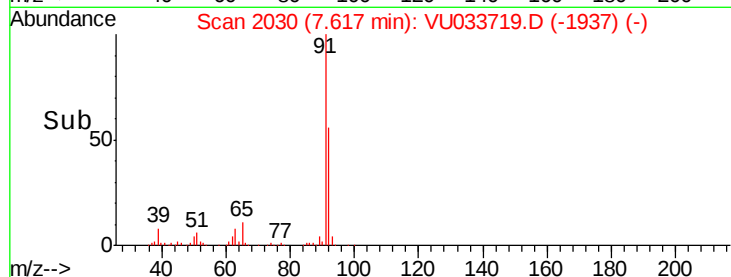
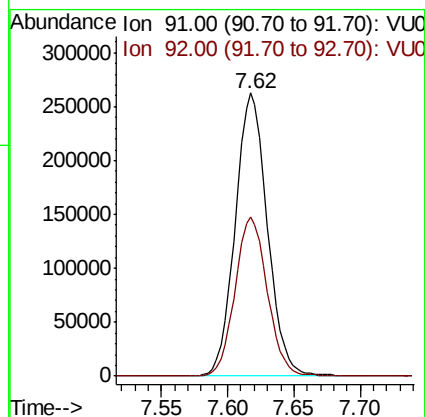
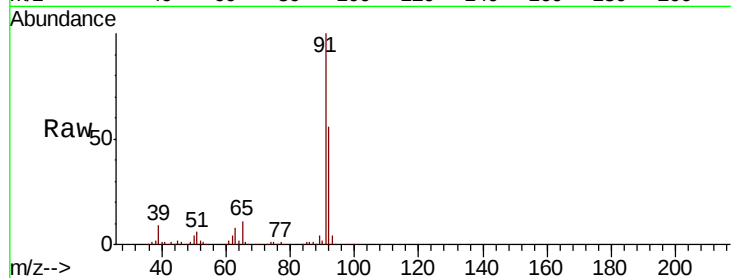
VSTD05058

Tgt Ion: 91 Resp: 441692

Ion Ratio Lower Upper

91 100

92 56.2 40.4 75.0



#44

trans-1,3-Dichloropropene

Concen: 47.049 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VU033719.D

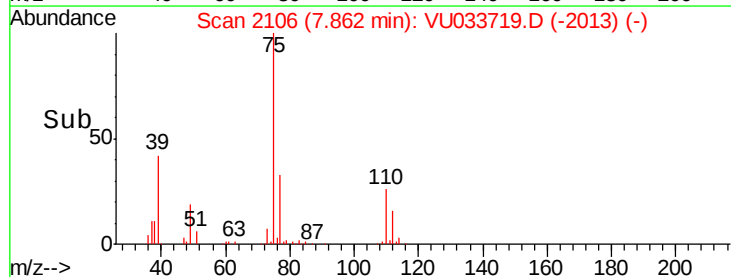
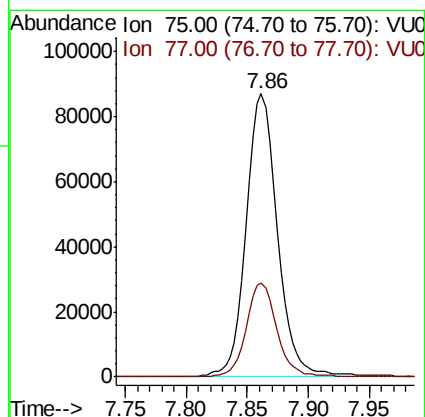
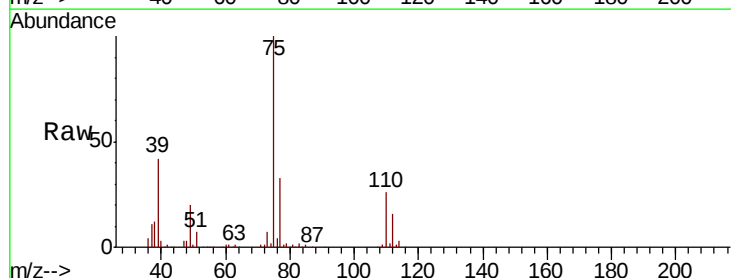
Acq: 10 Aug 2019 10:16

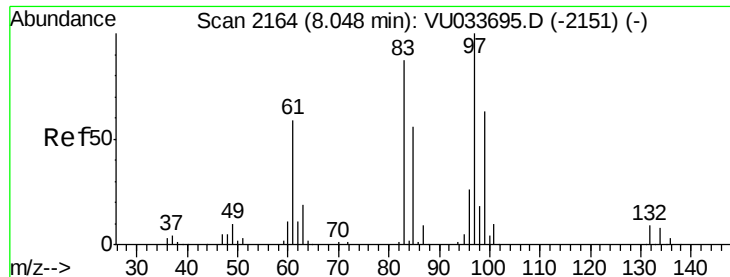
Tgt Ion: 75 Resp: 153330

Ion Ratio Lower Upper

75 100

77 33.2 22.4 41.6

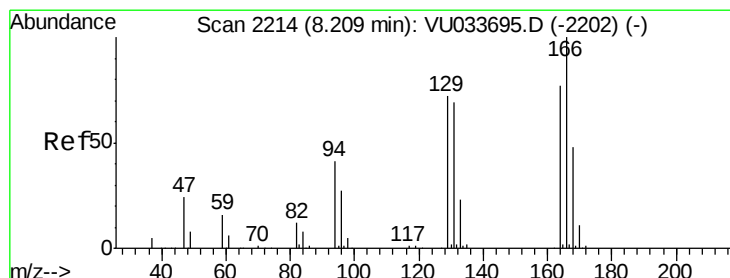
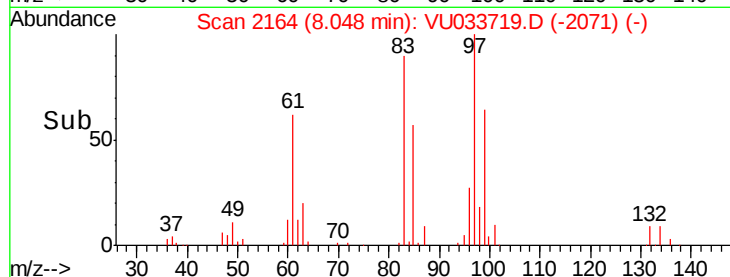
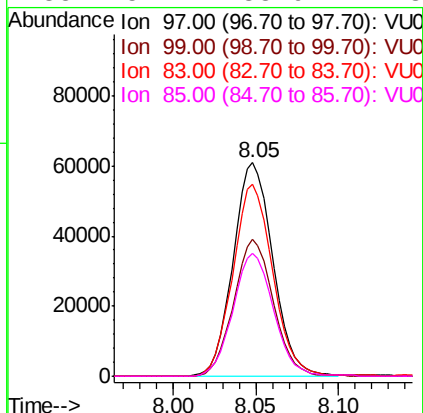
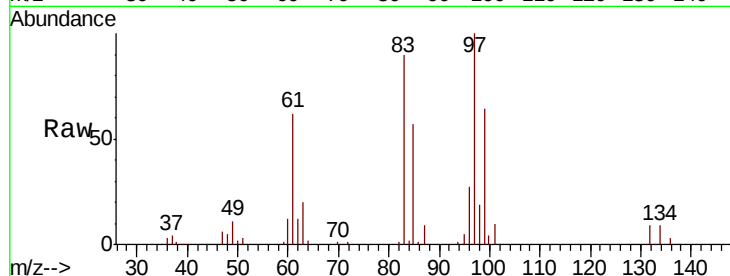




#45
 1,1,2-Trichloroethane
 Concen: 45.410 ug/L
 RT: 8.05 min Scan# 2164
 Delta R.T. 0.00 min
 Lab File: VU033719.D
 Acq: 10 Aug 2019 10:16

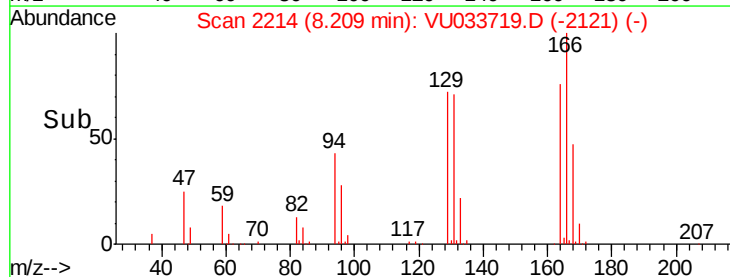
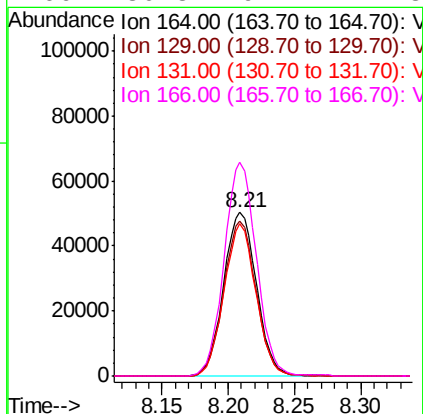
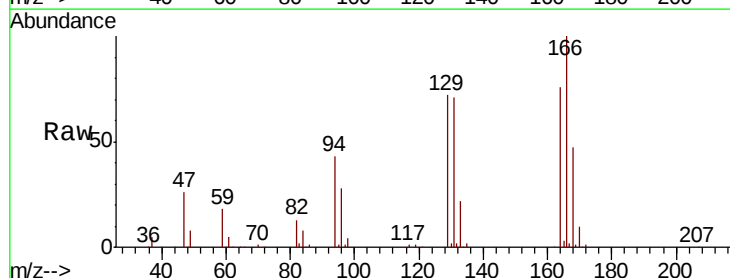
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05058

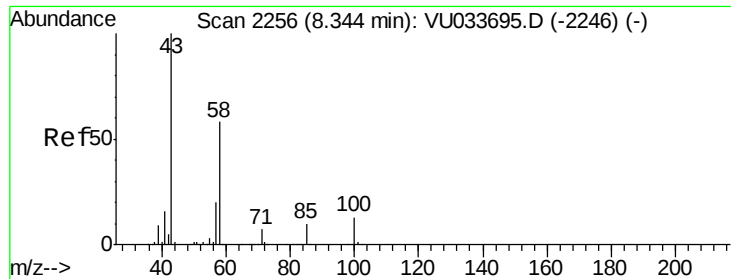
Tgt Ion:	97	Resp:	102189
Ion	Ratio	Lower	Upper
97	100		
99	63.8	43.3	80.5
83	90.1	60.5	112.5
85	57.4	38.9	72.3



#46
 Tetrachloroethene
 Concen: 46.356 ug/L
 RT: 8.21 min Scan# 2214
 Delta R.T. 0.00 min
 Lab File: VU033719.D
 Acq: 10 Aug 2019 10:16

Tgt Ion:	164	Resp:	86968
Ion	Ratio	Lower	Upper
164	100		
129	94.7	65.5	121.7
131	92.9	63.6	118.0
166	130.8	92.7	172.3

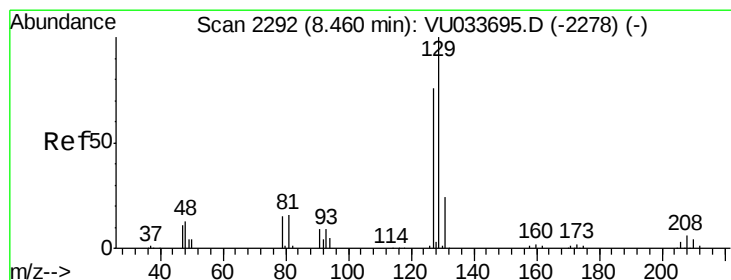
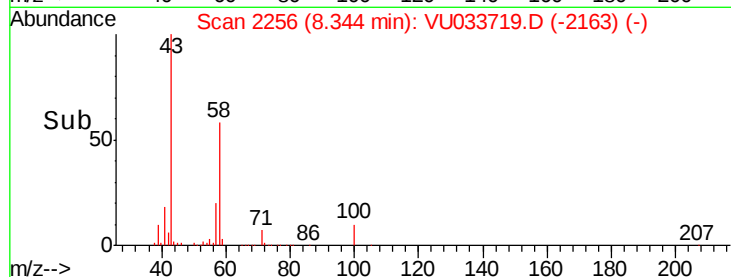
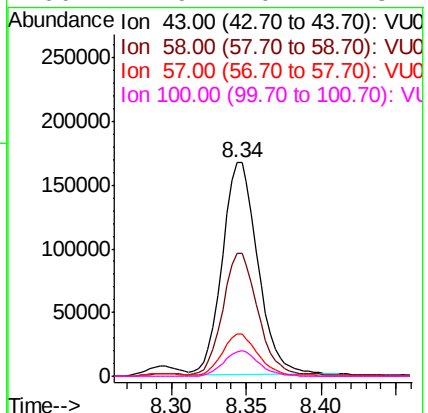
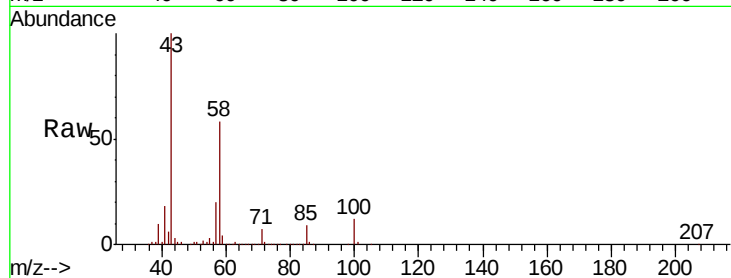




#48
2-Hexanone
Concen: 102.803 ug/L
RT: 8.34 min Scan# 2256
Delta R.T. 0.00 min
Lab File: VU033719.D
Acq: 10 Aug 2019 10:16

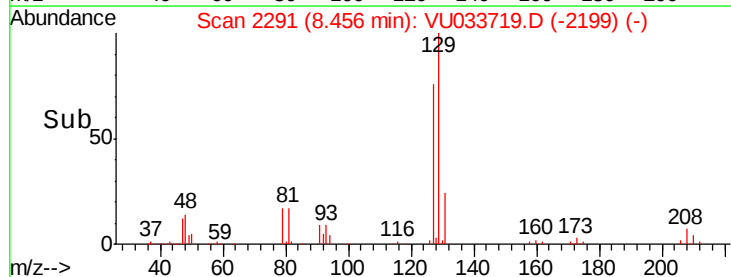
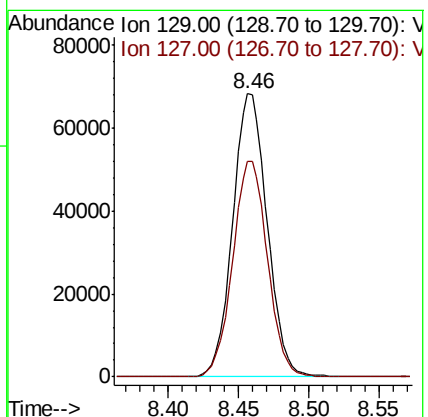
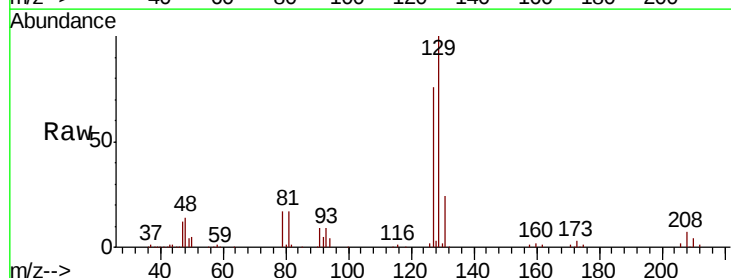
Instrument :
MSVOA_U
ClientSampleId :
VSTD05058

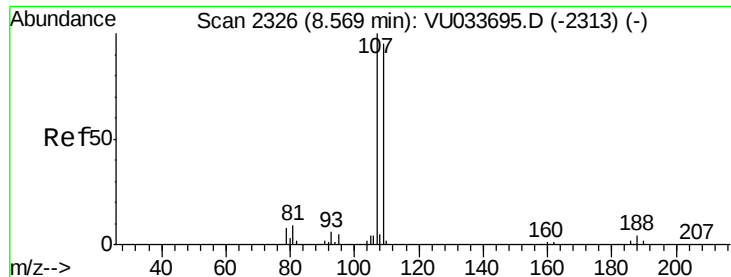
Tgt Ion:	43	Resp:	277124
Ion	Ratio	Lower	Upper
43	100		
58	57.5	46.6	70.0
57	20.1	16.2	24.4
100	11.9	10.1	15.1



#49
Dibromochloromethane
Concen: 46.381 ug/L
RT: 8.46 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VU033719.D
Acq: 10 Aug 2019 10:16

Tgt Ion:	129	Resp:	116950
Ion	Ratio	Lower	Upper
129	100		
127	76.0	53.3	98.9

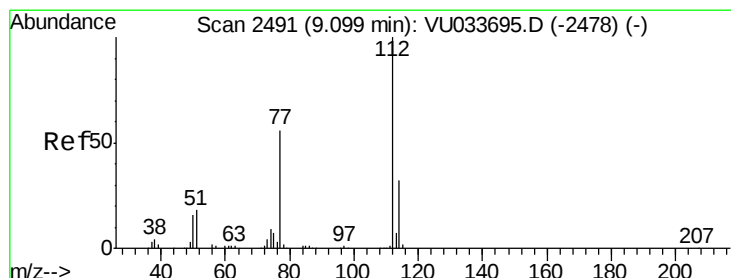
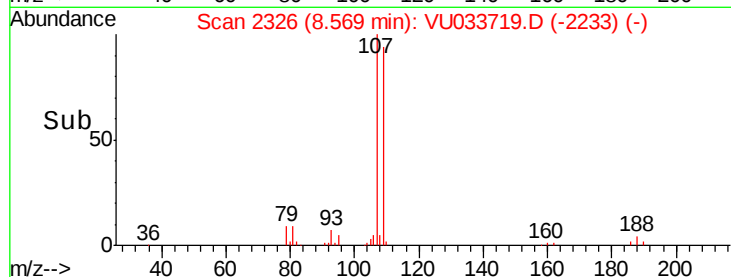
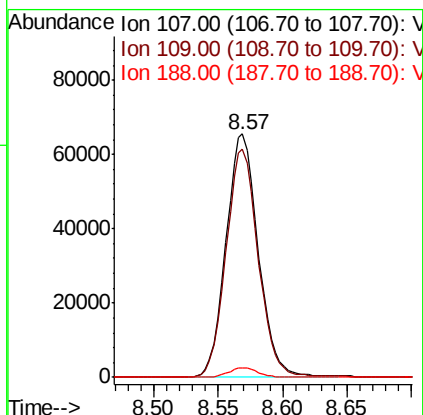
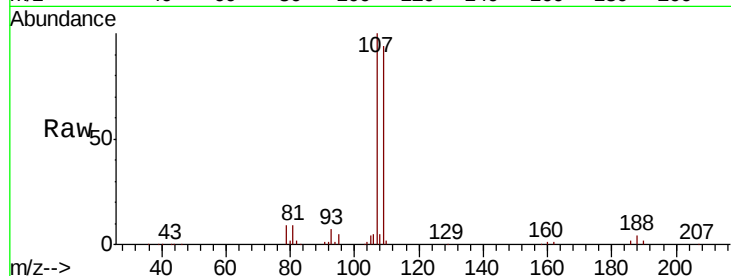




#50
 1,2-Dibromoethane
 Concen: 45.736 ug/L
 RT: 8.57 min Scan# 2326
 Delta R.T. 0.00 min
 Lab File: VU033719.D
 Acq: 10 Aug 2019 10:16

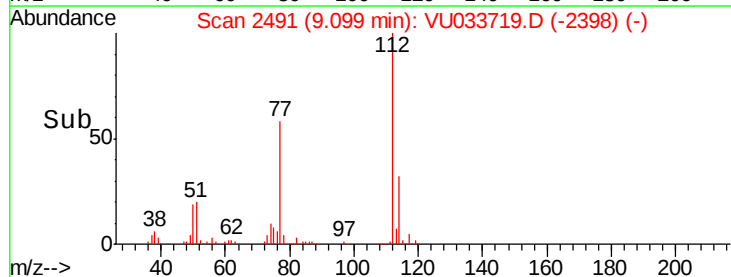
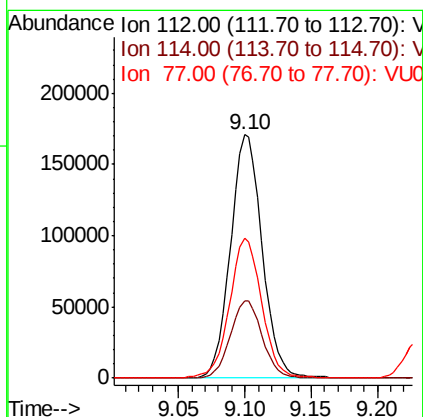
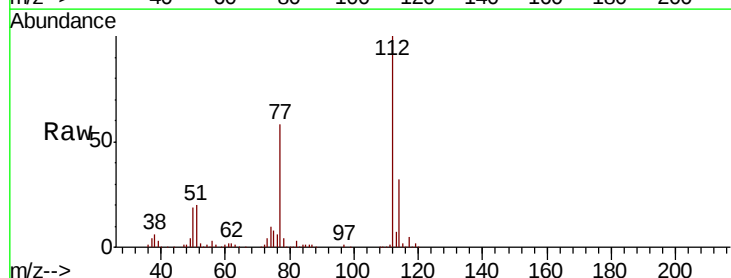
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05058

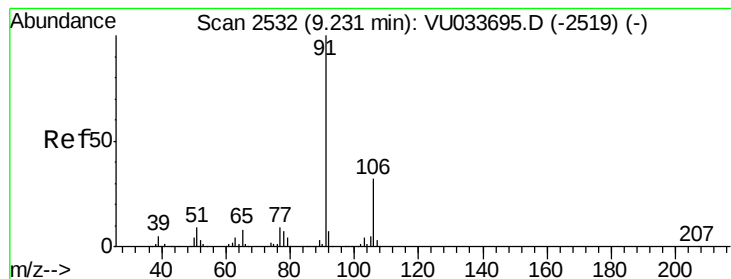
Tgt Ion	Ratio	Resp	Lower	Upper
107	100	113795		
109	93.7	66.4	123.4	
188	3.8	3.2	4.8	



#51
 Chlorobenzene
 Concen: 46.328 ug/L
 RT: 9.10 min Scan# 2491
 Delta R.T. 0.00 min
 Lab File: VU033719.D
 Acq: 10 Aug 2019 10:16

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	284168		
114	31.7	22.5	41.9	
77	57.5	45.3	67.9	





#52

Ethylbenzene

Concen: 46.008 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. 0.00 min

Lab File: VU033719.D

Acq: 10 Aug 2019 10:16

Instrument :

MSVOA_U

ClientSampleId :

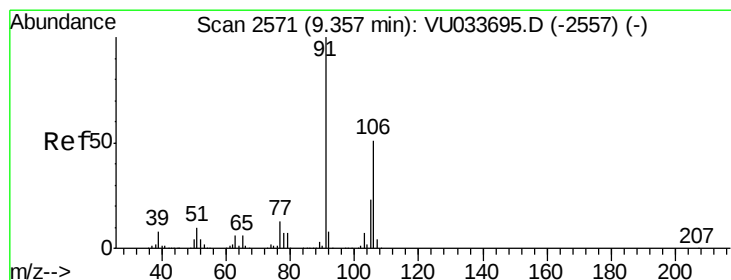
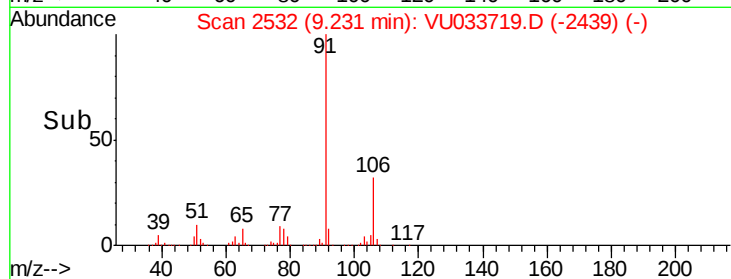
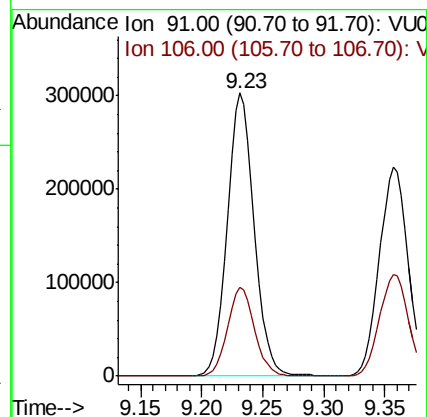
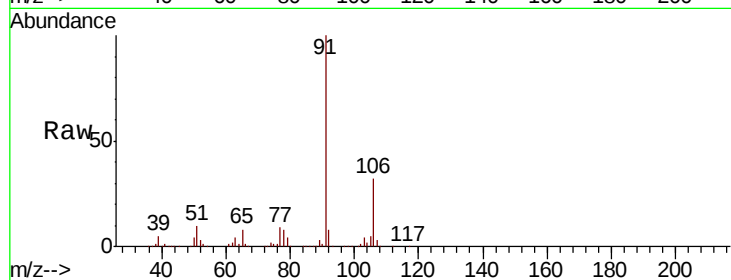
VSTD05058

Tgt Ion: 91 Resp: 469645

Ion Ratio Lower Upper

91 100

106 31.6 22.5 41.7



#53

m,p-Xylene

Concen: 45.868 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. 0.00 min

Lab File: VU033719.D

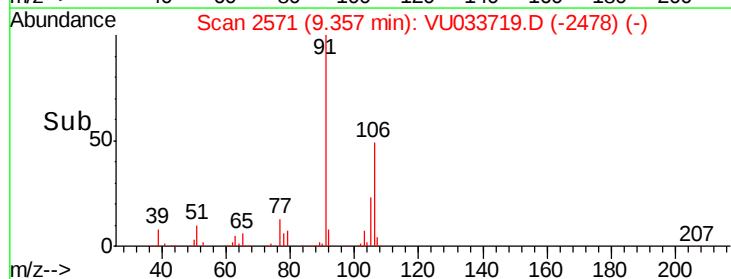
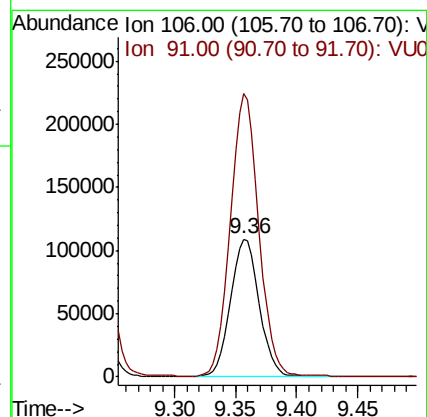
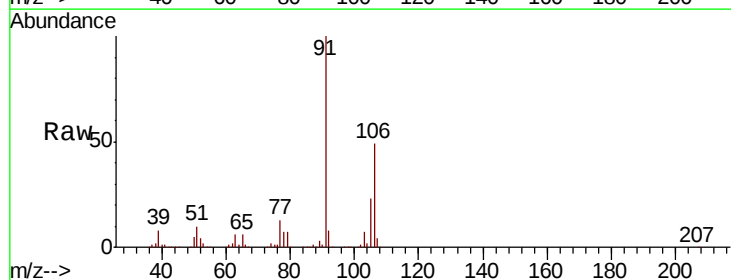
Acq: 10 Aug 2019 10:16

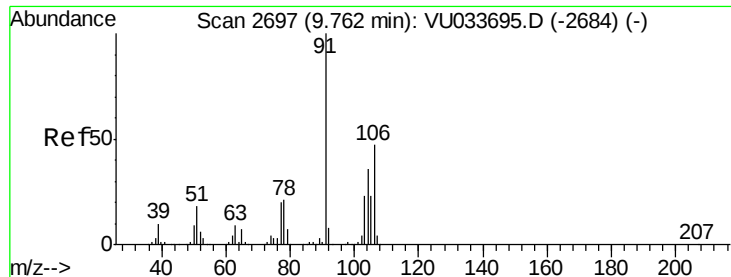
Tgt Ion: 106 Resp: 178725

Ion Ratio Lower Upper

106 100

91 205.4 138.8 257.8





#54

o-xylene

Concen: 45.989 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. 0.00 min

Lab File: VU033719.D

Acq: 10 Aug 2019 10:16

Instrument :

MSVOA_U

ClientSampleId :

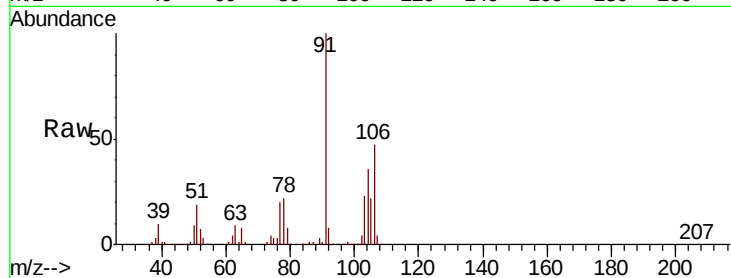
VSTD05058

Tgt Ion:106 Resp: 177117

Ion Ratio Lower Upper

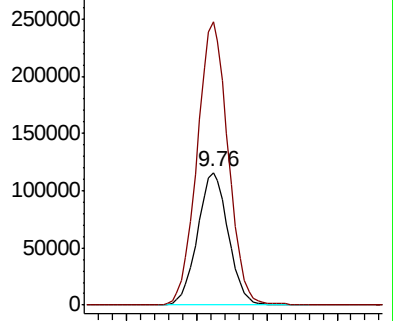
106 100

91 213.4 150.9 280.3

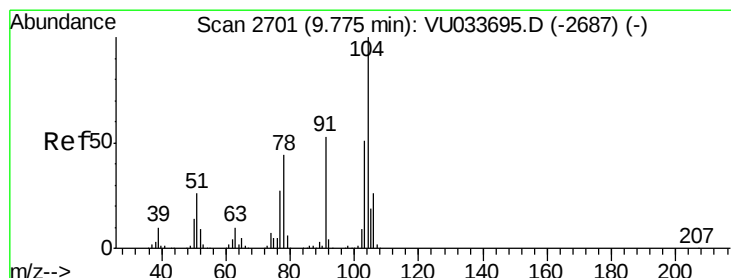
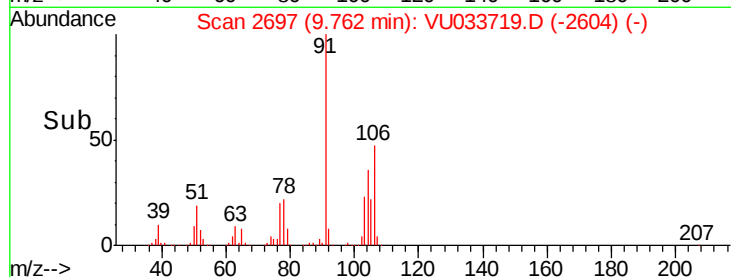


Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



Time-->



#55

Styrene

Concen: 48.086 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU033719.D

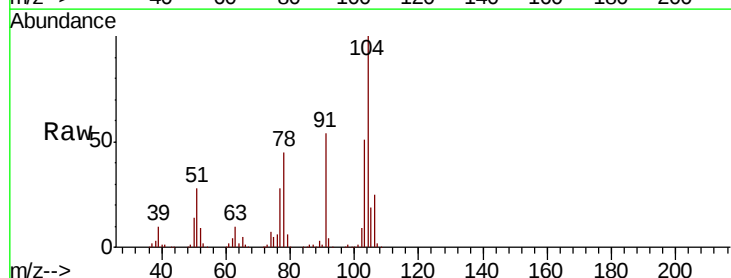
Acq: 10 Aug 2019 10:16

Tgt Ion:104 Resp: 310767

Ion Ratio Lower Upper

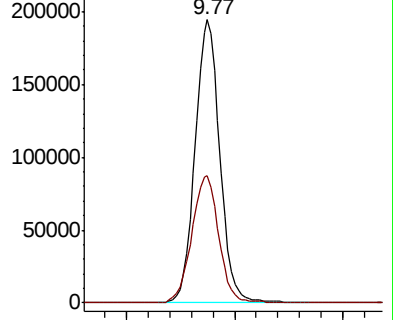
104 100

78 44.8 31.0 57.6

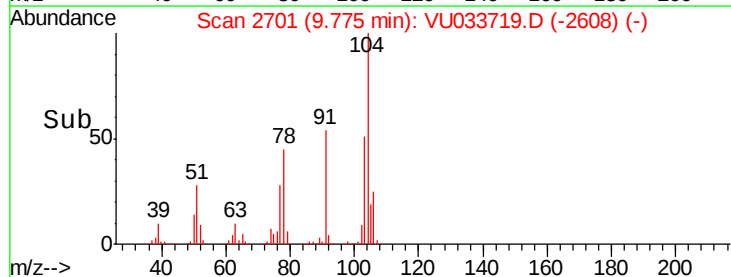


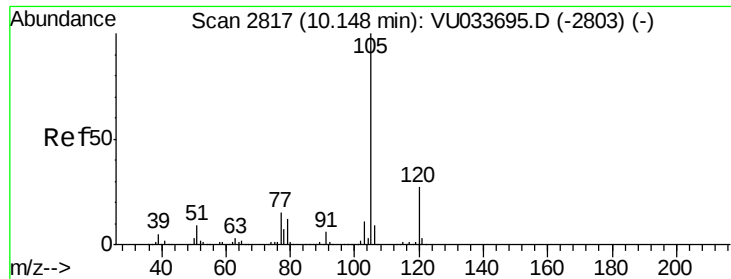
Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0



Time-->





#56

Isopropylbenzene

Concen: 45.954 ug/L

RT: 10.15 min Scan# 2817

Delta R.T. 0.00 min

Lab File: VU033719.D

Acq: 10 Aug 2019 10:16

Instrument :

MSVOA_U

ClientSampleId :

VSTD05058

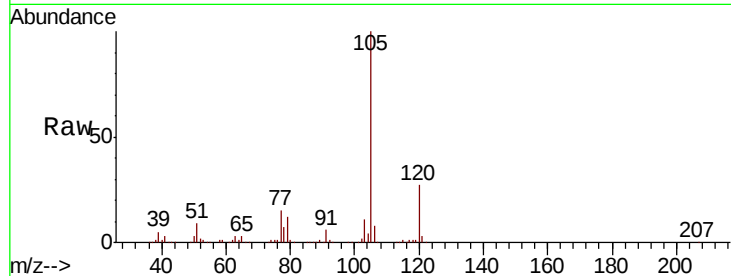
Tgt Ion: 105 Resp: 464449

Ion Ratio Lower Upper

105 100

120 26.9 21.6 32.4

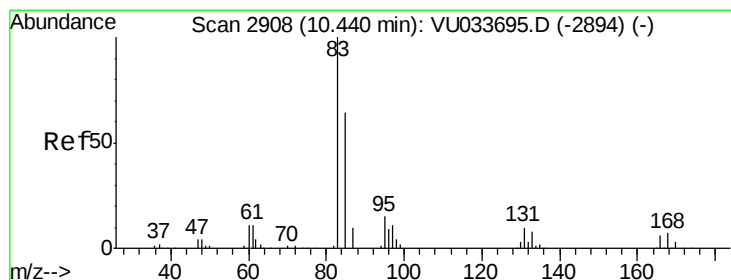
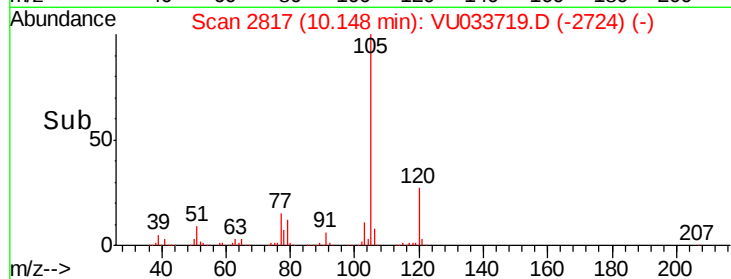
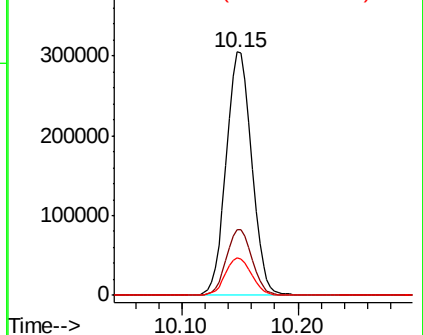
77 15.8 12.3 18.5



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: 47.043 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VU033719.D

Acq: 10 Aug 2019 10:16

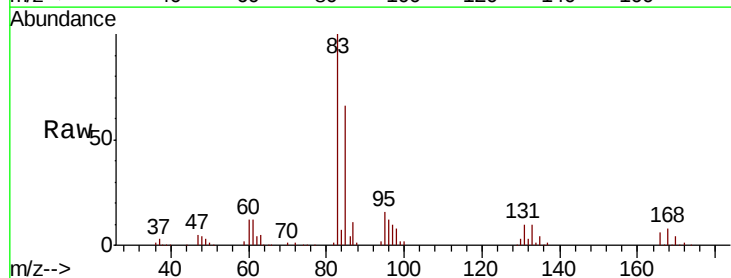
Tgt Ion: 83 Resp: 185971

Ion Ratio Lower Upper

83 100

85 66.0 45.8 85.0

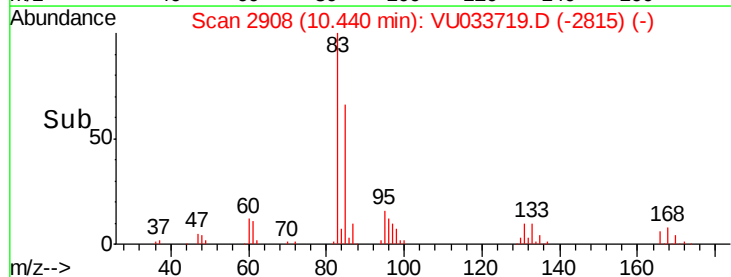
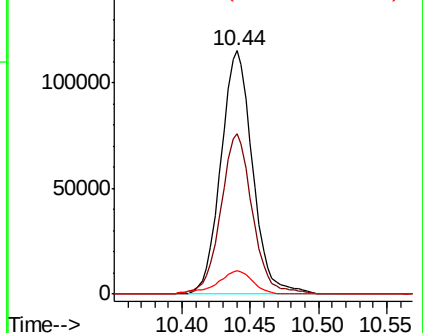
131 9.6 8.1 12.1

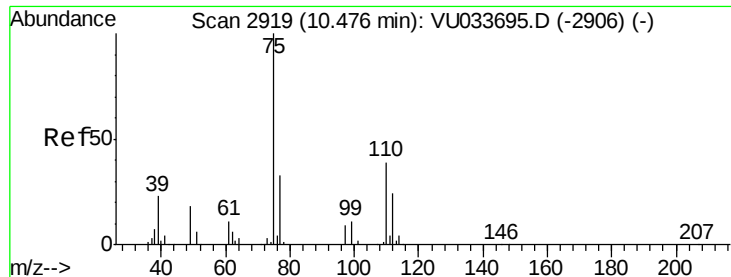


Abundance Ion 83.00 (82.70 to 83.70): VU

Ion 85.00 (84.70 to 85.70): VU

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 47.121 ug/L

RT: 10.48 min Scan# 2919

Delta R.T. 0.00 min

Lab File: VU033719.D

Acq: 10 Aug 2019 10:16

Instrument :

MSVOA_U

ClientSampleId :

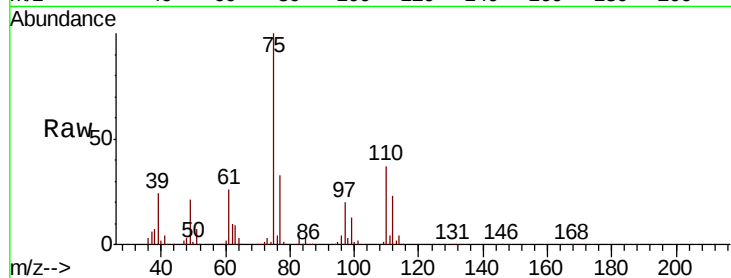
VSTD05058

Tgt Ion: 75 Resp: 146642

Ion Ratio Lower Upper

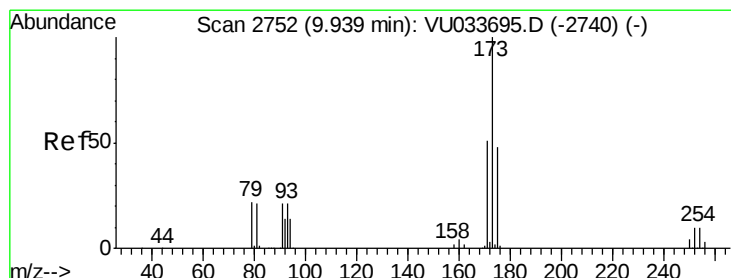
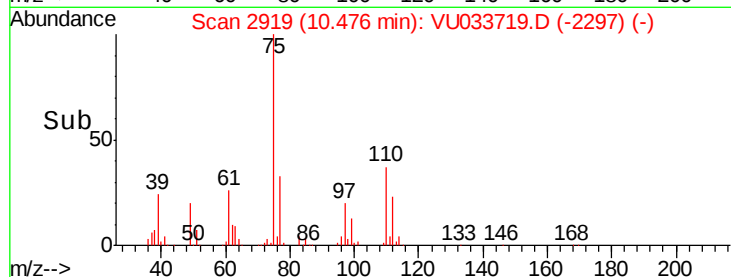
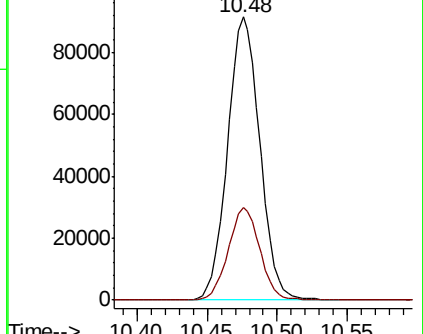
75 100

77 32.0 26.4 39.6



Abundance Ion 75.00 (74.70 to 75.70): VU033719.D (-2297) (-)

Ion 77.00 (76.70 to 77.70): VU033719.D (-2297) (-)



#61

Bromoform

Concen: 43.644 ug/L

RT: 9.94 min Scan# 2752

Delta R.T. 0.00 min

Lab File: VU033719.D

Acq: 10 Aug 2019 10:16

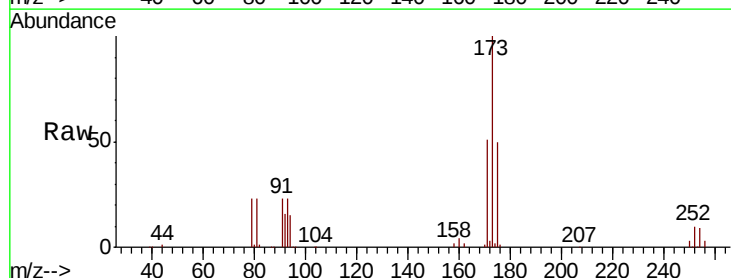
Tgt Ion: 173 Resp: 89641

Ion Ratio Lower Upper

173 100

175 49.8 39.8 59.8

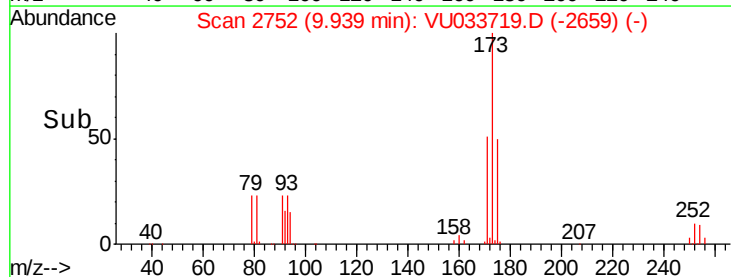
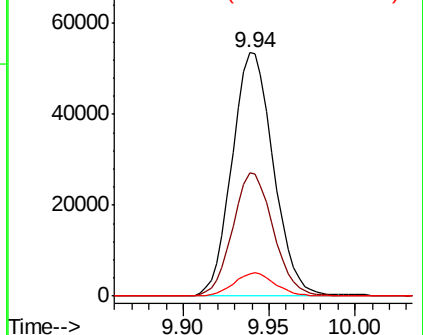
254 9.4 8.4 12.6

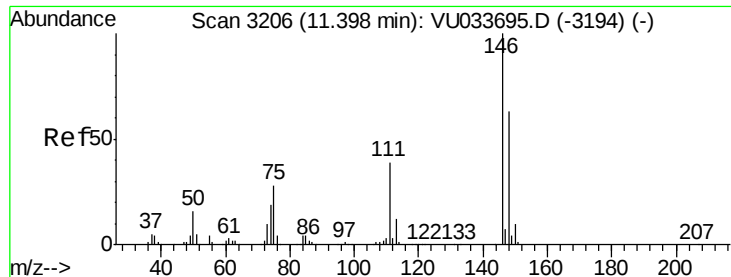


Abundance Ion 173.00 (172.70 to 173.70): VU033719.D (-2659) (-)

Ion 175.00 (174.70 to 175.70): VU033719.D (-2659) (-)

Ion 254.00 (253.70 to 254.70): VU033719.D (-2659) (-)





#62

1,3-Dichlorobenzene

Concen: 44.498 ug/L

RT: 11.40 min Scan# 3206

Delta R.T. 0.00 min

Lab File: VU033719.D

Acq: 10 Aug 2019 10:16

Instrument :

MSVOA_U

ClientSampleId :

VSTD05058

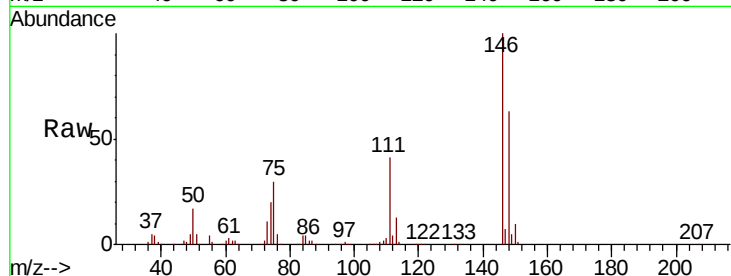
Tgt Ion:146 Resp: 231775

Ion Ratio Lower Upper

146 100

111 40.5 27.0 50.2

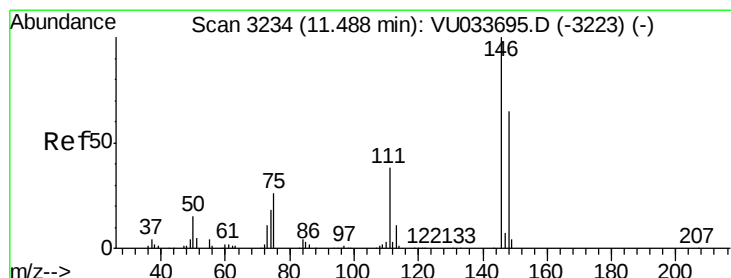
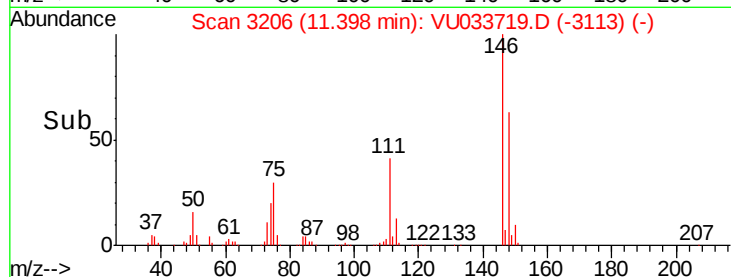
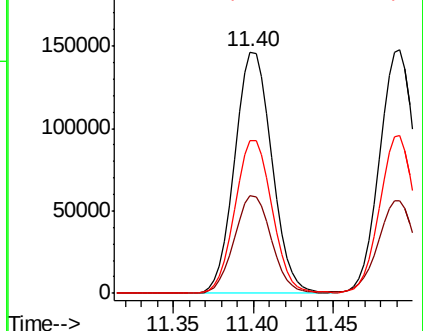
148 63.3 44.7 82.9



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



#63

1,4-Dichlorobenzene

Concen: 44.497 ug/L

RT: 11.49 min Scan# 3235

Delta R.T. 0.00 min

Lab File: VU033719.D

Acq: 10 Aug 2019 10:16

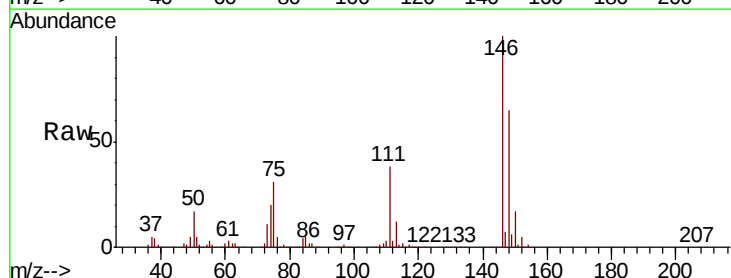
Tgt Ion:146 Resp: 234757

Ion Ratio Lower Upper

146 100

111 38.3 26.0 48.4

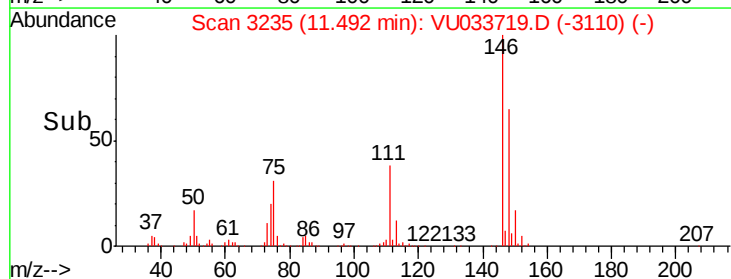
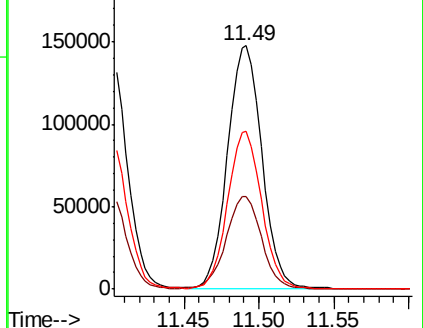
148 64.8 45.3 84.1

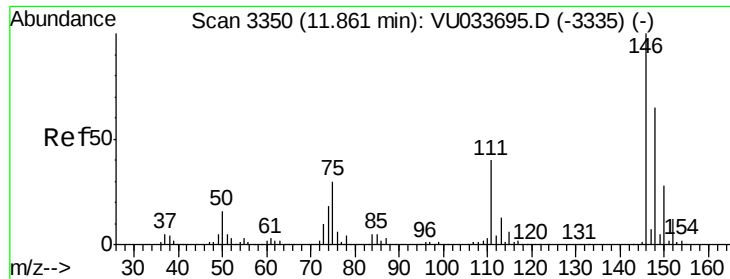


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

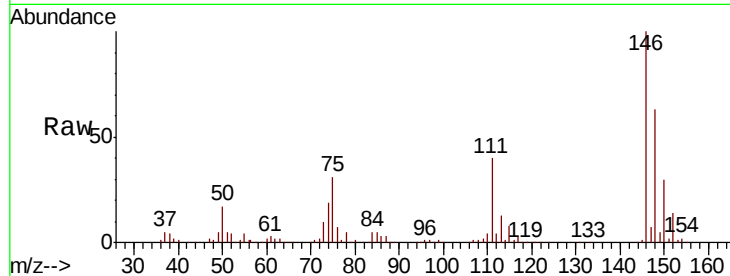




#65
 1,2-Dichlorobenzene
 Concen: 45.551 ug/L
 RT: 11.86 min Scan# 3350
 Delta R.T. 0.00 min
 Lab File: VU033719.D
 Acq: 10 Aug 2019 10:16

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05058

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.9	32.2	48.2
148	63.5	50.3	75.5

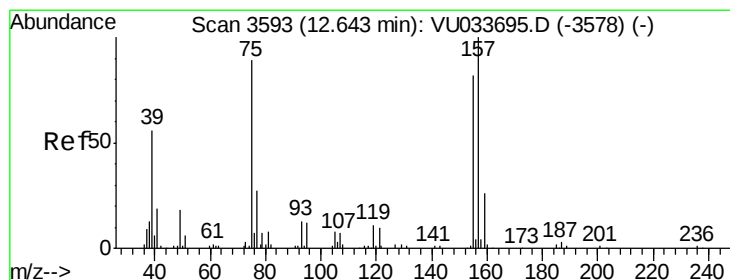
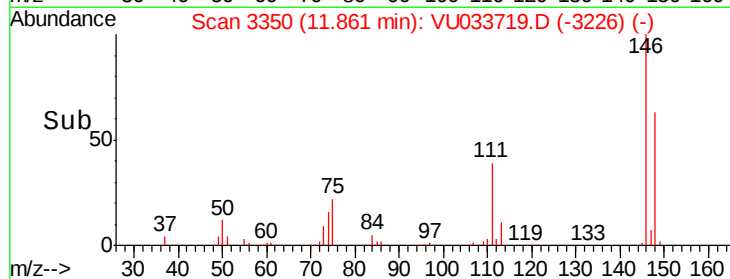
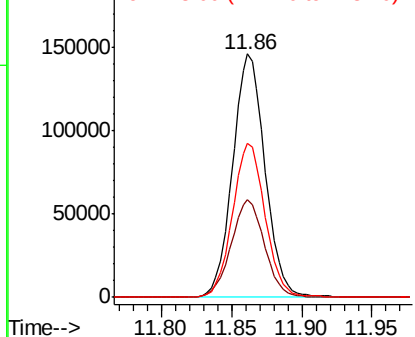


Abundance

Ion 146.00 (145.70 to 146.70): V

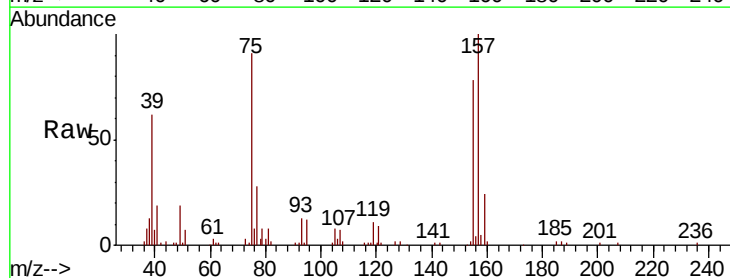
Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66
 1,2-Dibromo-3-chloropropane
 Concen: 45.991 ug/L
 RT: 12.64 min Scan# 3593
 Delta R.T. 0.00 min
 Lab File: VU033719.D
 Acq: 10 Aug 2019 10:16

Tgt Ion	Ratio	Lower	Upper
75	100		
155	85.6	72.7	109.1
157	109.3	88.6	132.8

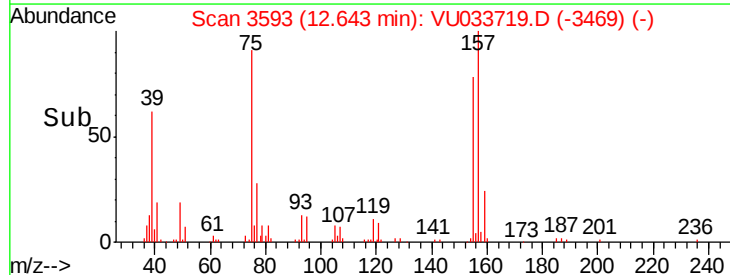
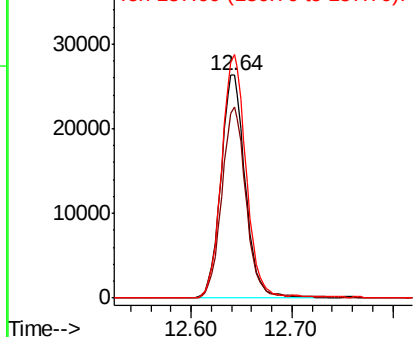


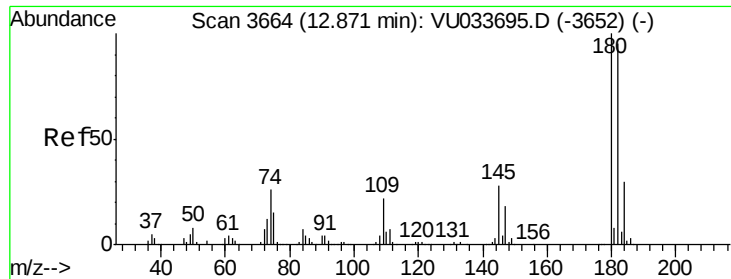
Abundance

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

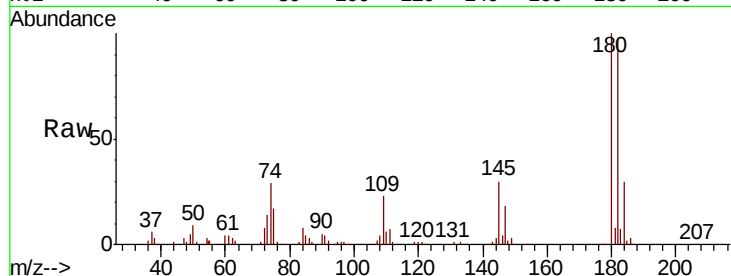




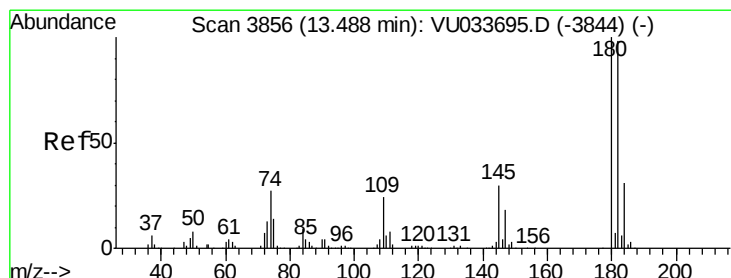
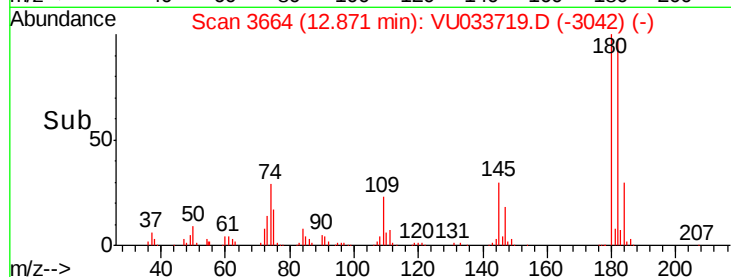
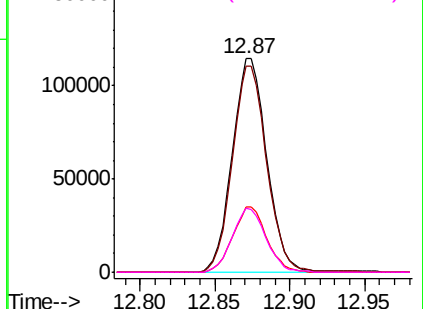
#67
 1,3,5-Trichlorobenzene
 Concen: 44.434 ug/L
 RT: 12.87 min Scan# 3664
 Delta R.T. 0.00 min
 Lab File: VU033719.D
 Acq: 10 Aug 2019 10:16

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05058

Tgt Ion:	180	Resp:	184177
Ion	Ratio	Lower	Upper
180	100		
182	95.9	76.5	114.7
184	30.2	24.2	36.2
145	29.3	22.3	33.5

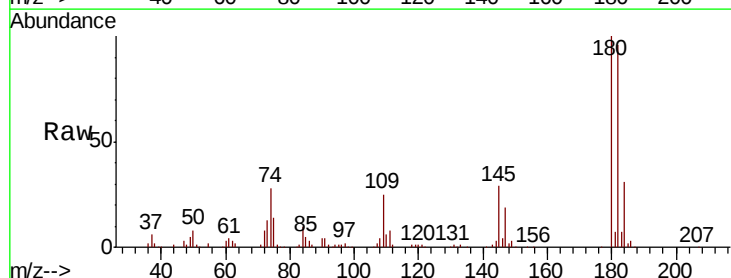


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

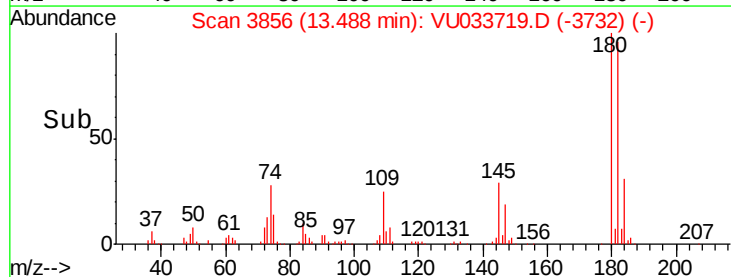
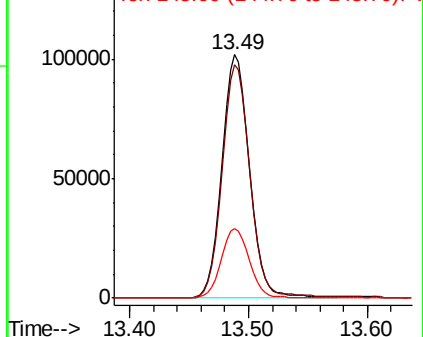


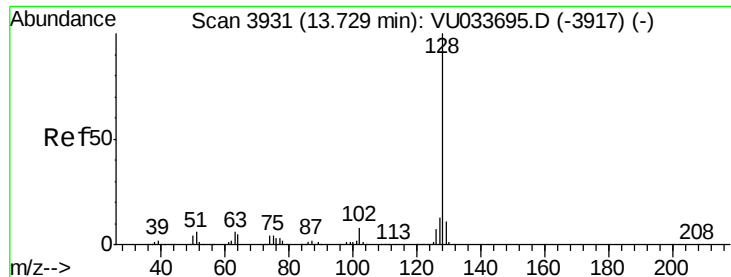
#68
 1,2,4-trichlorobenzene
 Concen: 43.775 ug/L
 RT: 13.49 min Scan# 3856
 Delta R.T. 0.00 min
 Lab File: VU033719.D
 Acq: 10 Aug 2019 10:16

Tgt Ion:	180	Resp:	164153
Ion	Ratio	Lower	Upper
180	100		
182	96.6	78.2	117.4
145	29.1	23.5	35.3



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: 44.401 ug/L

RT: 13.73 min Scan# 3931

Delta R.T. 0.00 min

Lab File: VU033719.D

Acq: 10 Aug 2019 10:16

Instrument :

MSVOA_U

ClientSampleId :

VSTD05058

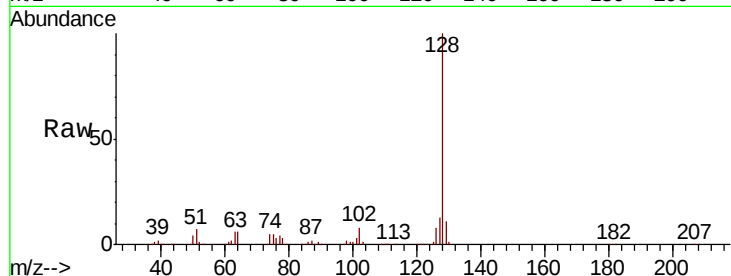
Tgt Ion:128 Resp: 498715

Ion Ratio Lower Upper

128 100

127 13.1 10.4 15.6

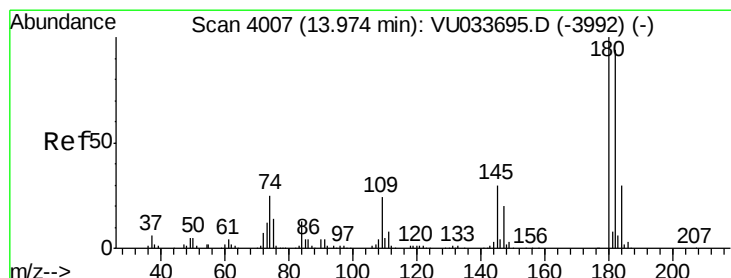
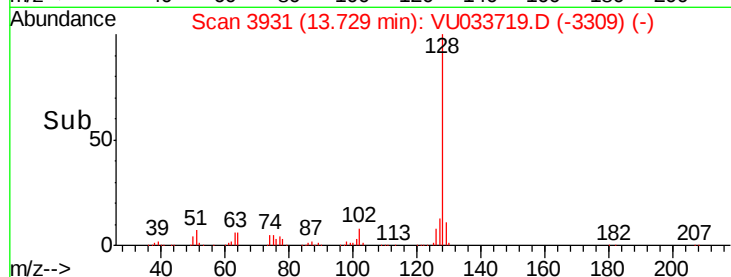
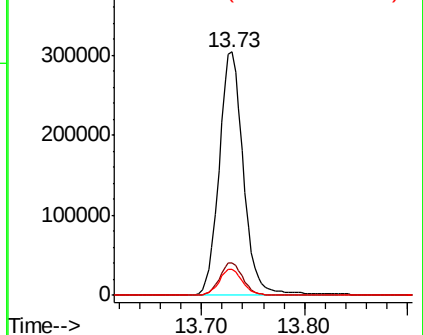
129 10.7 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 43.871 ug/L

RT: 13.97 min Scan# 4007

Delta R.T. 0.00 min

Lab File: VU033719.D

Acq: 10 Aug 2019 10:16

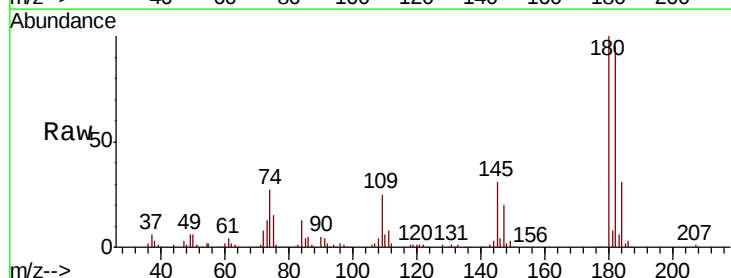
Tgt Ion:180 Resp: 170074

Ion Ratio Lower Upper

180 100

182 94.4 78.5 117.7

145 31.2 24.6 37.0



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

