

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U102319\
 Data File : VU035409.D
 Acq On : 23 Oct 2019 14:54
 Operator : JC/SP
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 23 17:14:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101719WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Oct 23 08:45:49 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	245772	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	244862	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	114943	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.62	65	86484	5.77	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	115.40%
7) Chloroethane-d5	1.93	69	80173	5.85	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	117.00%
11) 1,1-Dichloroethene-d2	2.60	63	159604	5.76	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	115.20%
20) 2-Butanone-d5	4.70	46	231561	53.77	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	107.54%
24) Chloroform-d	5.11	84	157180	5.74	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	114.80%
26) 1,2-Dichloroethane-d4	5.75	65	84456	5.57	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	111.40%
32) Benzene-d6	5.77	84	299083	5.34	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	106.80%
36) 1,2-Dichloropropane-d6	6.73	67	98778	5.55	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	111.00%
41) Toluene-d8	7.93	98	271608	5.07	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.40%
43) trans-1,3-Dichloropropene-	8.21	79	39373	4.56	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	91.20%
46) 2-Hexanone-d5	8.68	63	178796	46.99	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	93.98%
57) 1,1,2,2-Tetrachloroethane-	10.79	84	87061	5.49	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	109.80%
64) 1,2-Dichlorobenzene-d4	12.22	152	98476	4.70	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	94.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	115723	5.532	ug/L 99
3) Chloromethane	1.54	50	120818	5.823	ug/L 100
5) Vinyl chloride	1.62	62	125263	5.878	ug/L 99
6) Bromomethane	1.87	94	75810	6.025	ug/L 99
8) Chloroethane	1.95	64	79294	5.771	ug/L 98
9) Trichlorofluoromethane	2.16	101	156390	5.497	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	90918	5.547	ug/L 93
12) 1,1-Dichloroethene	2.61	96	84249	5.336	ug/L 93
13) Acetone	2.67	43	175964	58.740	ug/L 99
14) Carbon disulfide	2.82	76	259563	5.199	ug/L 98
15) Methyl Acetate	3.00	43	38204	5.118	ug/L 99
16) Methylene chloride	3.08	84	100045	5.267	ug/L 99
17) Methyl tert-butyl Ether	3.43	73	210843	4.961	ug/L 98
18) trans-1,2-Dichloroethene	3.39	96	88616	5.200	ug/L 94
19) 1,1-Dichloroethane	3.92	63	179479	5.824	ug/L 98
21) 2-Butanone	4.78	43	249910	51.184	ug/L 97
22) cis-1,2-Dichloroethene	4.72	96	99984	5.309	ug/L 98

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 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 23 17:14:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101719WMA.M
 Quant Title : TRACE VOA SOM01.0
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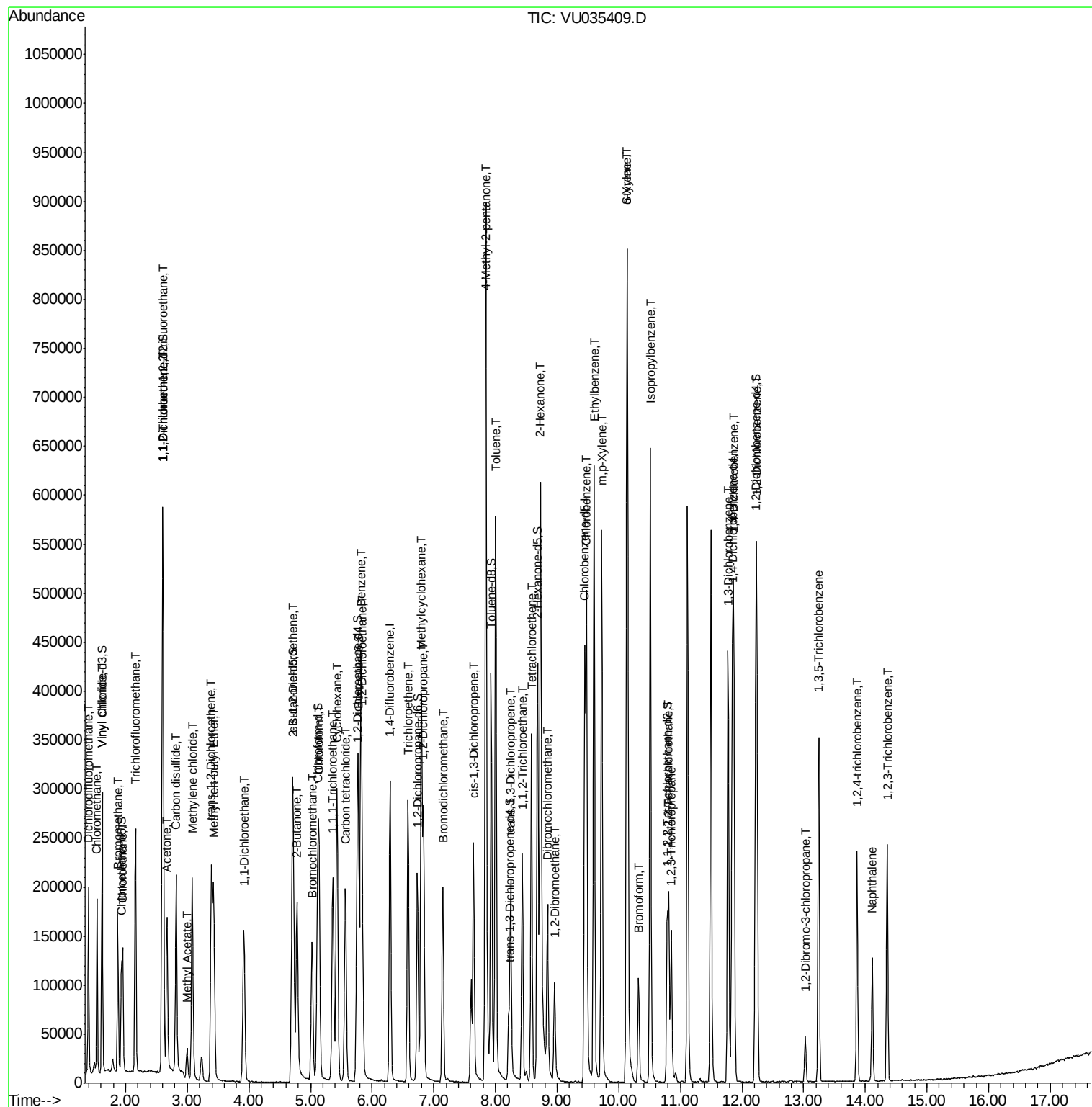
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	43621	5.380	ug/L	92
25) Chloroform	5.14	83	190243	5.627	ug/L	98
27) 1,2-Dichloroethane	5.84	62	110931	5.350	ug/L	100
29) 1,1,1-Trichloroethane	5.36	97	150098	5.233	ug/L	99
30) Cyclohexane	5.43	56	141489	4.606	ug/L	98
31) Carbon tetrachloride	5.57	117	131481	5.091	ug/L	100
33) Benzene	5.82	78	390940	5.426	ug/L	100
34) Trichloroethene	6.58	95	97784	5.048	ug/L	97
35) Methylcyclohexane	6.80	83	144518	4.464	ug/L	96
37) 1,2-Dichloropropane	6.83	63	101391	5.544	ug/L	99
38) Bromodichloromethane	7.15	83	130396	5.292	ug/L	100
39) cis-1,3-Dichloropropene	7.65	75	145643	4.758	ug/L	100
40) 4-Methyl-2-pentanone	7.84	43	612719	49.626	ug/L	97
42) Toluene	8.00	91	415635	5.226	ug/L	99
44) trans-1,3-Dichloropropene	8.25	75	118290	4.728	ug/L	100
45) 1,1,2-Trichloroethane	8.44	97	70387	5.184	ug/L	99
47) Tetrachloroethene	8.58	164	78530	4.867	ug/L	99
48) 2-Hexanone	8.73	43	457576	52.845	ug/L	96
49) Dibromochloromethane	8.84	129	85718	4.979	ug/L	99
50) 1,2-Dibromoethane	8.96	107	66630	4.909	ug/L	99
51) Chlorobenzene	9.48	112	260683	5.077	ug/L	99
52) Ethylbenzene	9.60	91	443466	4.904	ug/L	100
53) m,p-Xylene	9.72	106	161057	4.716	ug/L	100
54) o-Xylene	10.13	106	159705	4.792	ug/L	100
55) Styrene	10.14	104	270724	4.989	ug/L	100
56) Isopropylbenzene	10.51	105	422715	4.715	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.81	83	94564	5.412	ug/L	98
59) 1,2,3-Trichloropropane	10.85	75	66605	5.227	ug/L	98
61) Bromoform	10.32	173	49708	4.669	ug/L	99
62) 1,3-Dichlorobenzene	11.77	146	195243	4.978	ug/L	99
63) 1,4-Dichlorobenzene	11.86	146	192162	4.983	ug/L	98
65) 1,2-Dichlorobenzene	12.24	146	185475	5.033	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.02	75	11895	4.570	ug/L	96
67) 1,3,5-Trichlorobenzene	13.24	180	112975	4.648	ug/L	99
68) 1,2,4-trichlorobenzene	13.87	180	74059	4.577	ug/L	99
69) Naphthalene	14.11	128	102454	4.613	ug/L	98
70) 1,2,3-Trichlorobenzene	14.36	180	77243	5.105	ug/L	99

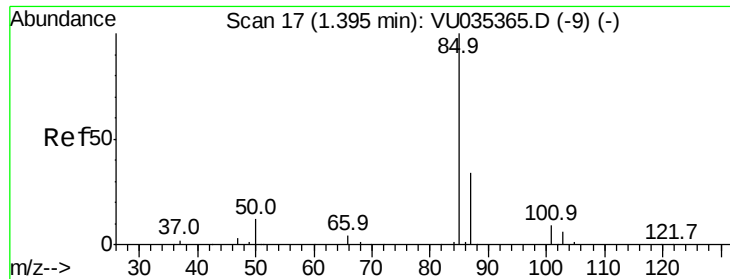
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Acq On : 23 Oct 2019 14:54
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ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :

Quant Time: Oct 23 17:14:30 2019
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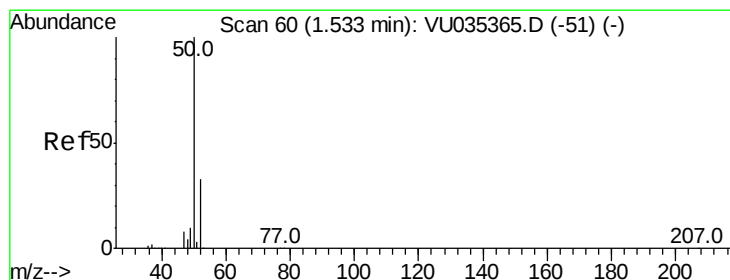
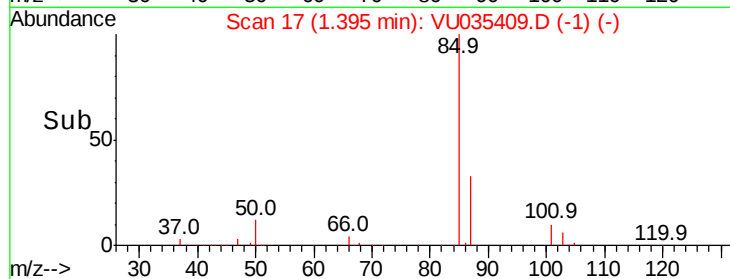
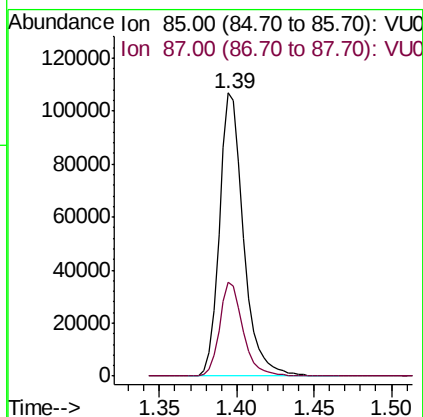
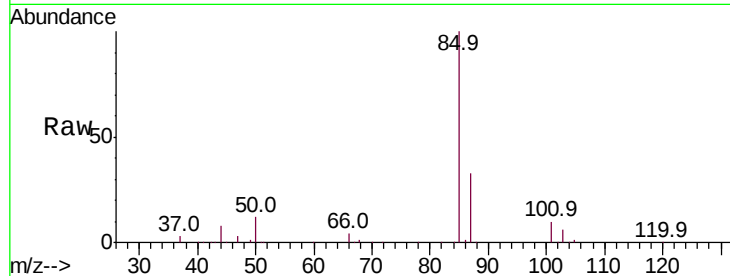




#2
 Dichlorodifluoromethane
 Concen: 5.532 ug/L
 RT: 1.39 min Scan# 17
 Delta R.T. -0.00 min
 Lab File: VU035409.D
 Acq: 23 Oct 2019 14:54

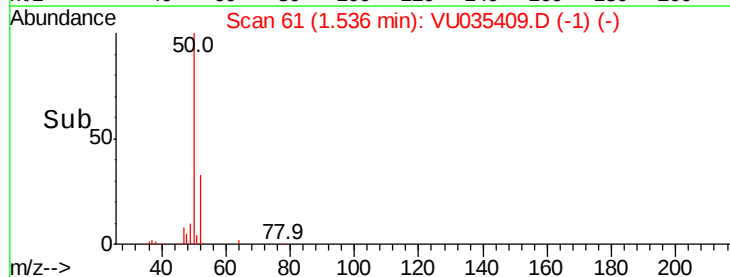
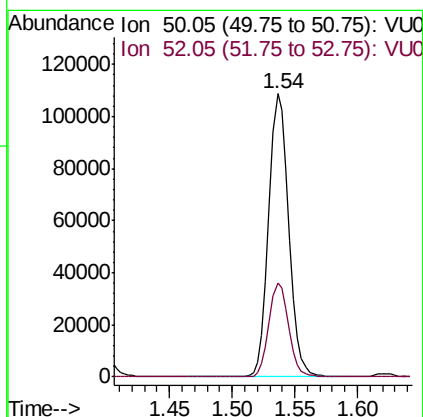
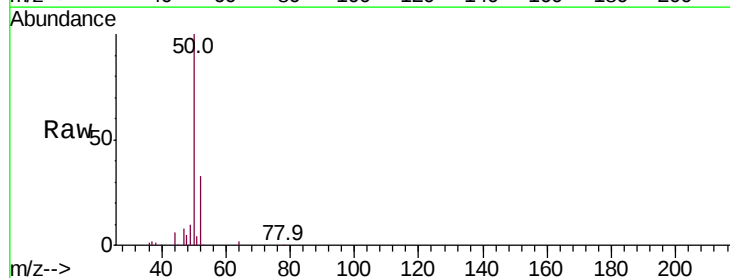
Instrument :
 MSVOA_U
 ClientSampleId :

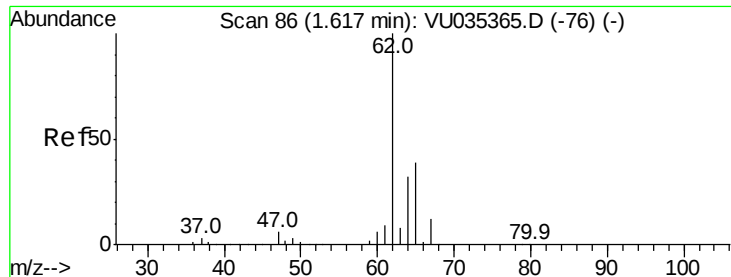
Tot Ion: 85 Resp: 115723
 Ion Ratio Lower Upper
 85 100
 87 32.4 25.5 38.3



#3
 Chloromethane
 Concen: 5.823 ug/L
 RT: 1.54 min Scan# 61
 Delta R.T. -0.00 min
 Lab File: VU035409.D
 Acq: 23 Oct 2019 14:54

Tgt Ion: 50 Resp: 120818
 Ion Ratio Lower Upper
 50 100
 52 33.4 23.5 43.7





#5

Vinyl chloride

Concen: 5.878 ug/L

RT: 1.62 min Scan# 87

Delta R.T. -0.00 min

Lab File: VU035409.D

Acq: 23 Oct 2019 14:54

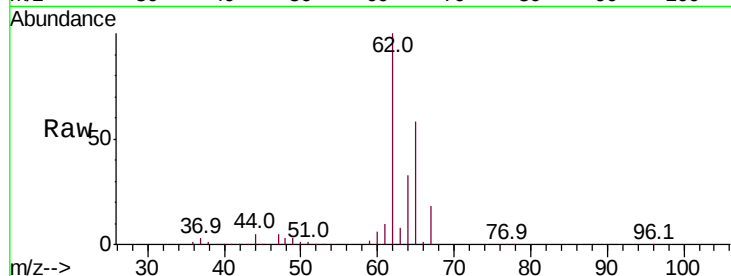
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 62 Resp: 125263

Ion Ratio Lower Upper

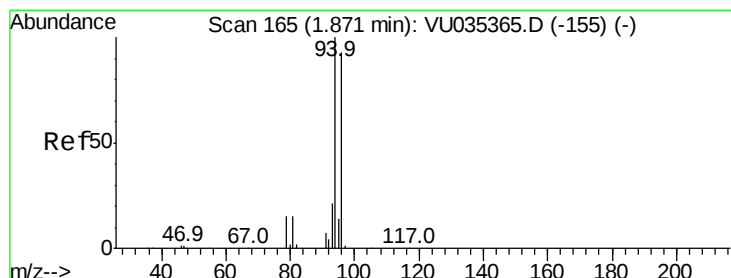
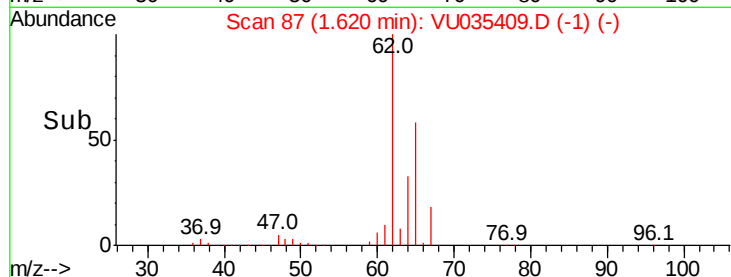
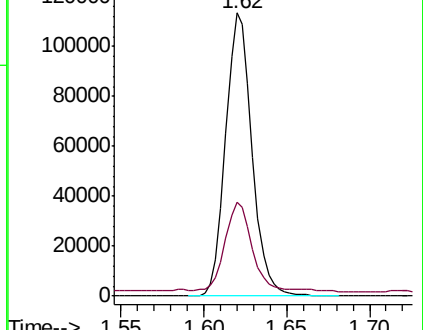
62 100

64 33.3 22.9 42.5



Abundance Ion 62.00 (61.70 to 62.70): VU035365.D (-76) (-)

Ion 64.10 (63.80 to 64.80): VU035365.D (-76) (-)



#6

Bromomethane

Concen: 6.025 ug/L

RT: 1.87 min Scan# 166

Delta R.T. -0.00 min

Lab File: VU035409.D

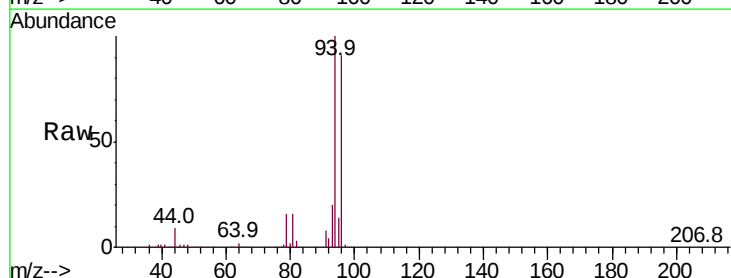
Acq: 23 Oct 2019 14:54

Tgt Ion: 94 Resp: 75810

Ion Ratio Lower Upper

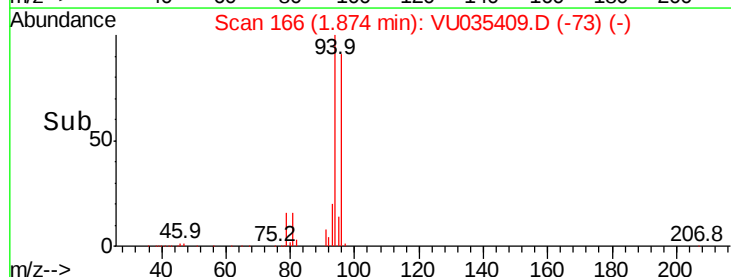
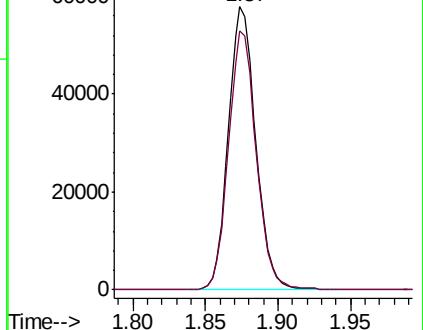
94 100

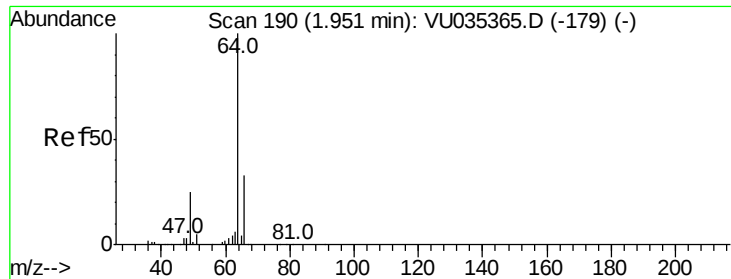
96 91.3 64.6 120.0



Abundance Ion 94.00 (93.70 to 94.70): VU035365.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU035365.D (-155) (-)

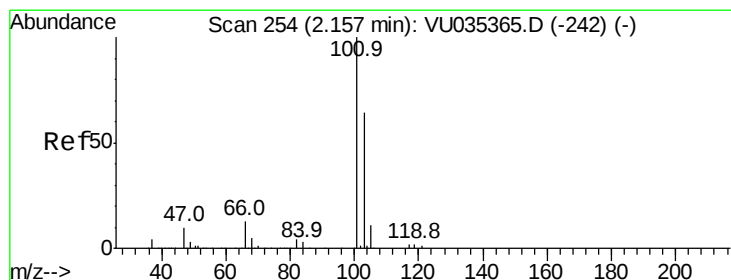
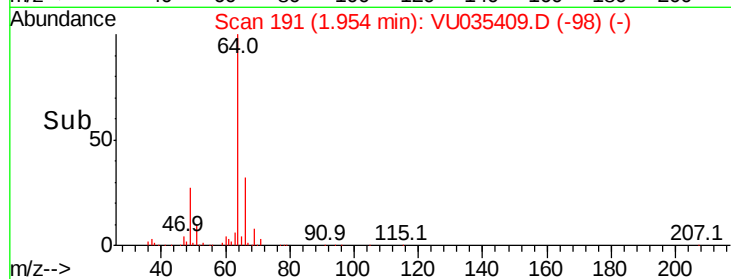
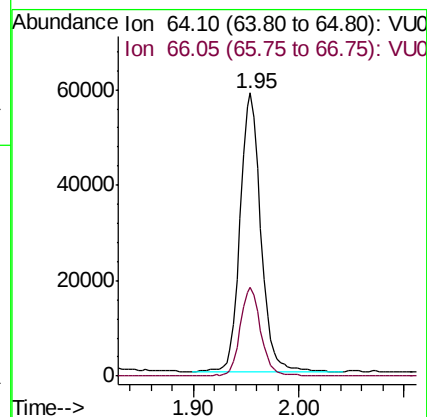
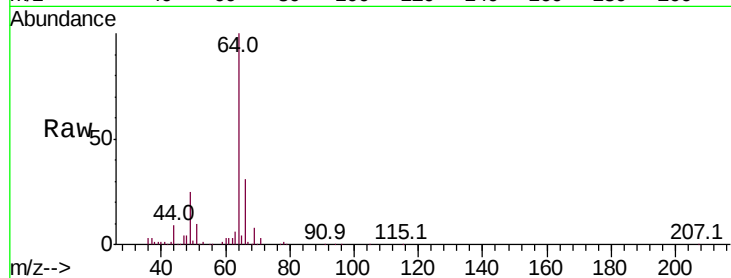




#8
Chloroethane
Concen: 5.771 ug/L
RT: 1.95 min Scan# 191
Delta R.T. -0.00 min
Lab File: VU035409.D
Acq: 23 Oct 2019 14:54

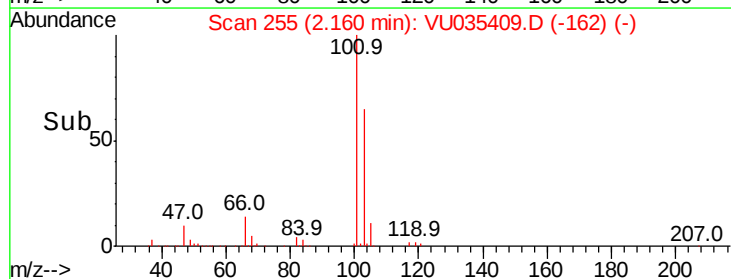
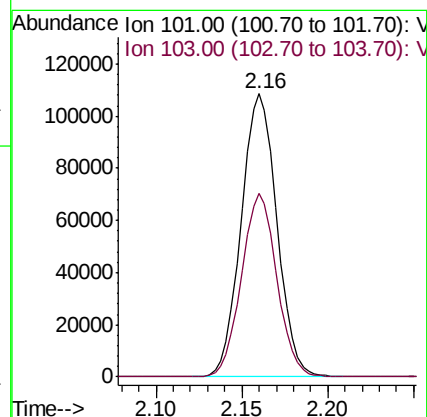
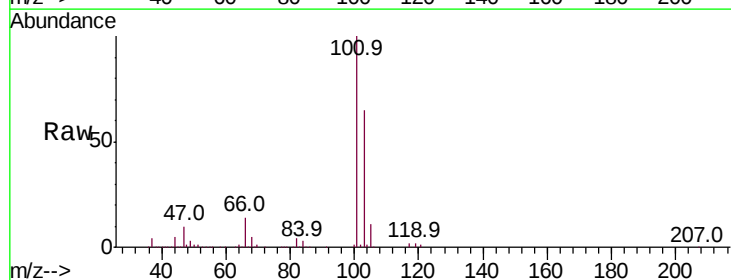
Instrument :
MSVOA_U
ClientSampleId :

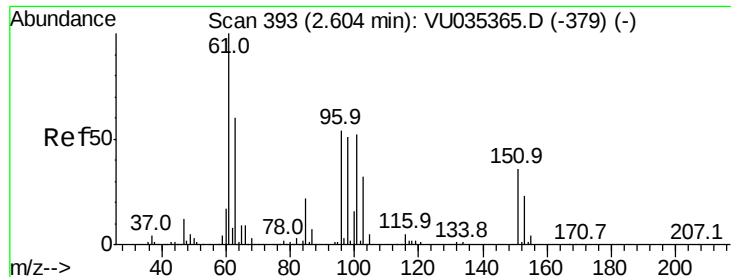
Tot Ion: 64 Resp: 79294
Ion Ratio Lower Upper
64 100
66 31.2 22.7 42.1



#9
Trichlorofluoromethane
Concen: 5.497 ug/L
RT: 2.16 min Scan# 255
Delta R.T. -0.00 min
Lab File: VU035409.D
Acq: 23 Oct 2019 14:54

Tgt Ion: 101 Resp: 156390
Ion Ratio Lower Upper
101 100
103 64.2 51.9 77.9





#10

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

Concen: 5.547 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU035409.D

Acq: 23 Oct 2019 14:54

Instrument :

MSVOA_U

ClientSampleId :

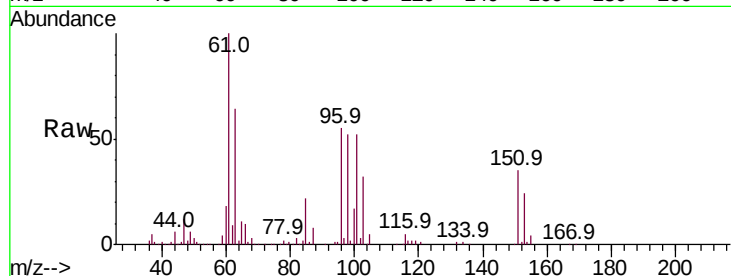
Tot Ion:101 Resp: 90918

Ion Ratio Lower Upper

101 100

85 44.1 33.9 50.9

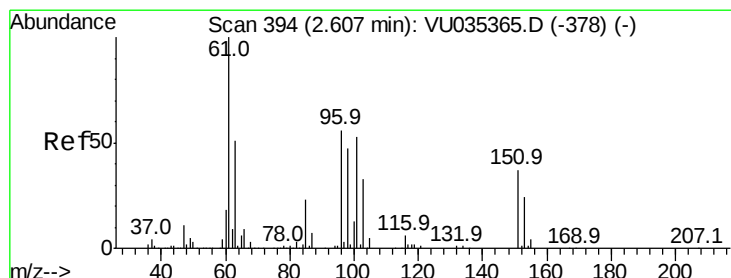
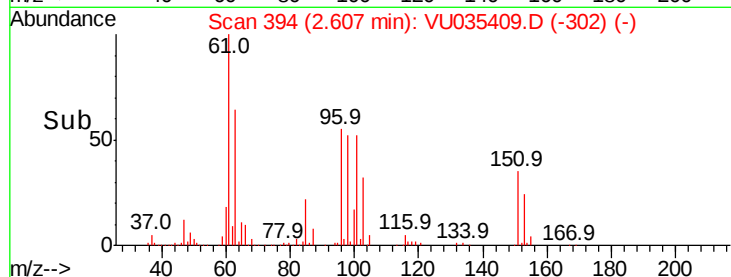
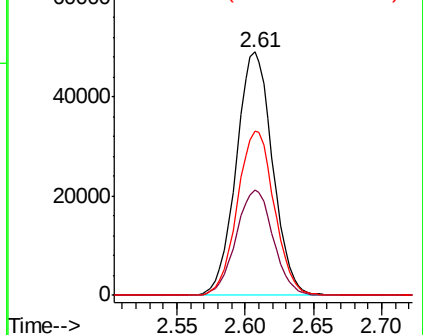
151 68.4 61.0 91.4



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: 5.336 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU035409.D

Acq: 23 Oct 2019 14:54

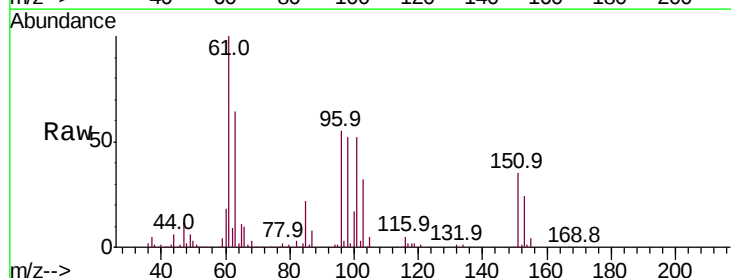
Tgt Ion: 96 Resp: 84249

Ion Ratio Lower Upper

96 100

61 181.7 120.6 224.0

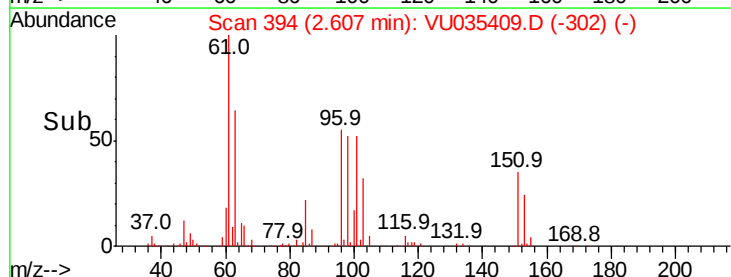
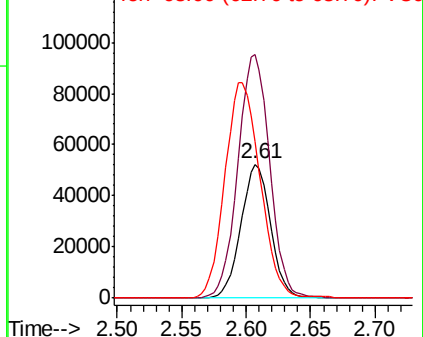
63 116.8 86.8 161.2

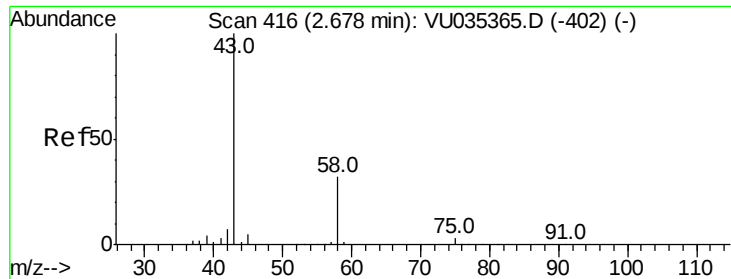


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 58.740 ug/L

RT: 2.67 min Scan# 414

Delta R.T. -0.00 min

Lab File: VU035409.D

Acq: 23 Oct 2019 14:54

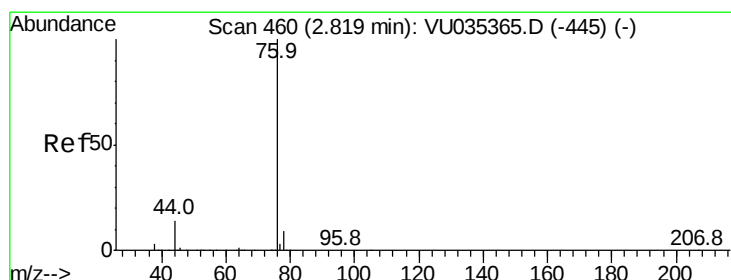
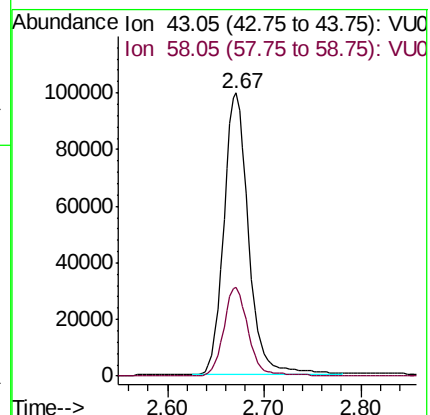
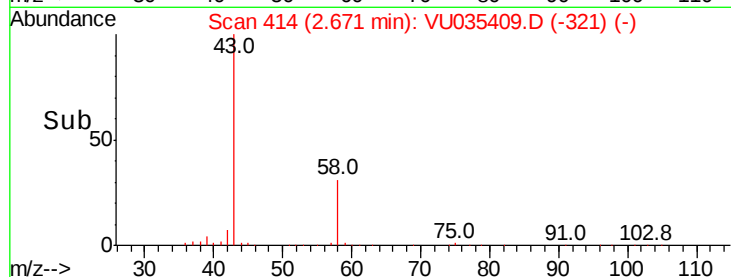
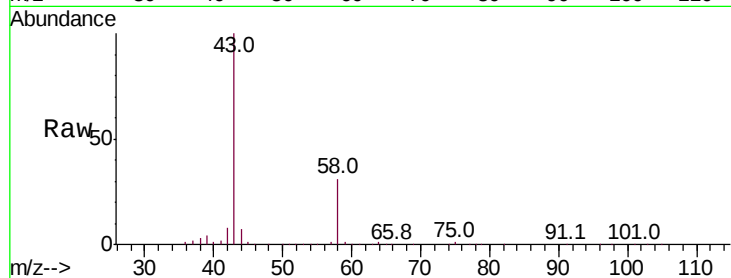
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 175964

Ion Ratio Lower Upper

43 100

58 31.2 0.0 61.8



#14

Carbon disulfide

Concen: 5.199 ug/L

RT: 2.82 min Scan# 460

Delta R.T. -0.00 min

Lab File: VU035409.D

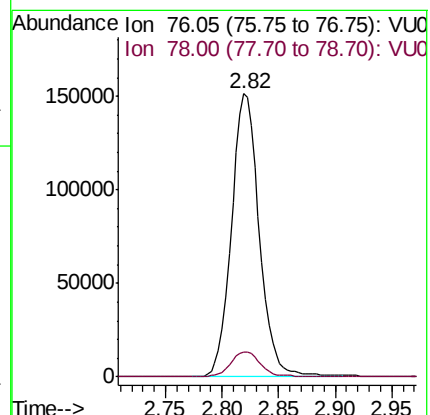
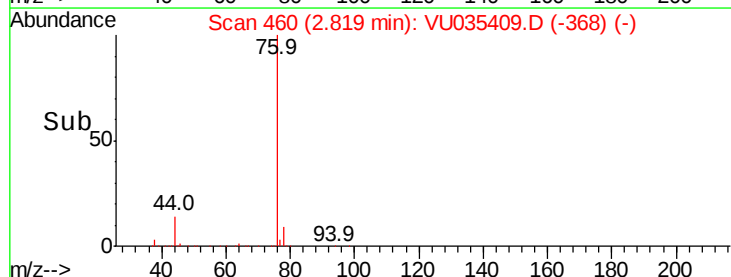
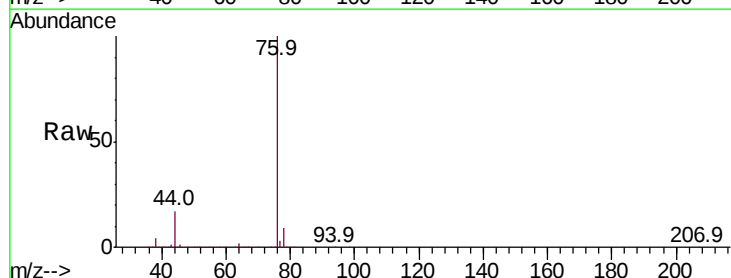
Acq: 23 Oct 2019 14:54

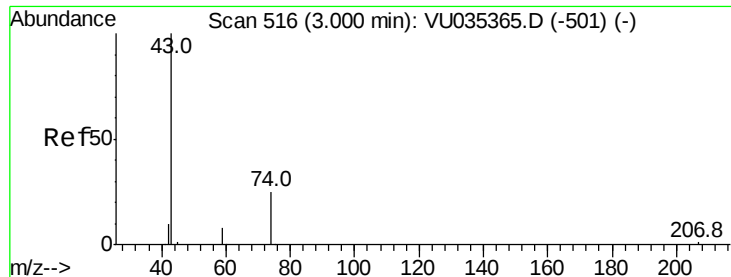
Tgt Ion: 76 Resp: 259563

Ion Ratio Lower Upper

76 100

78 8.8 7.6 11.4

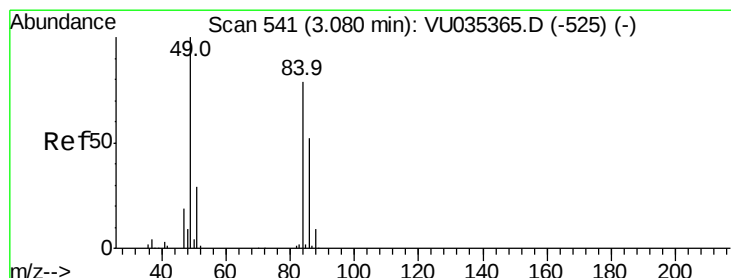
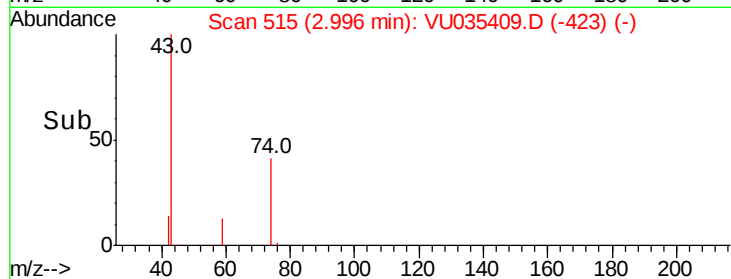
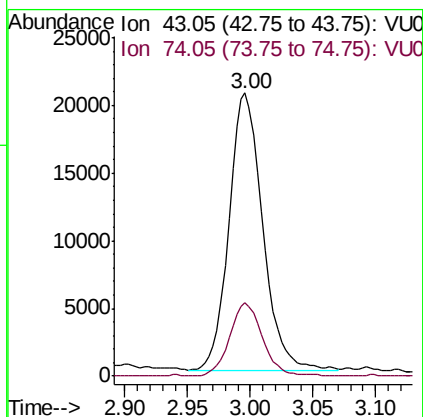
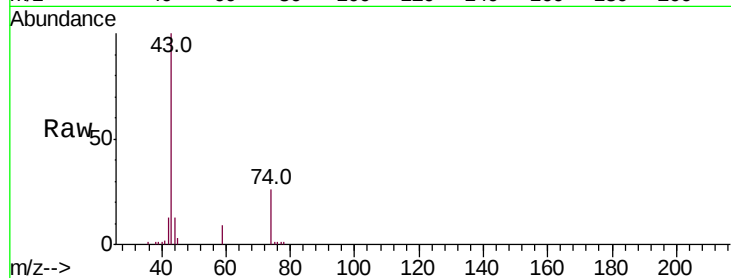




#15
Methvl Acetate
Concen: 5.118 ug/L
RT: 3.00 min Scan# 515
Delta R.T. -0.00 min
Lab File: VU035409.D
Acq: 23 Oct 2019 14:54

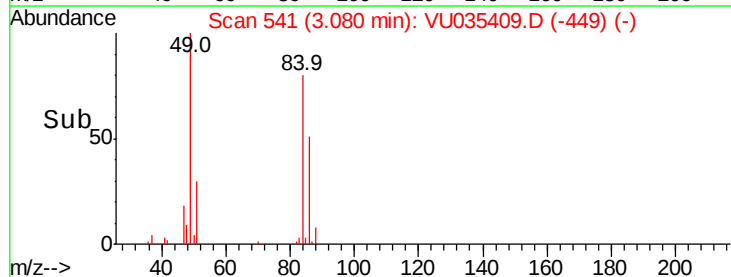
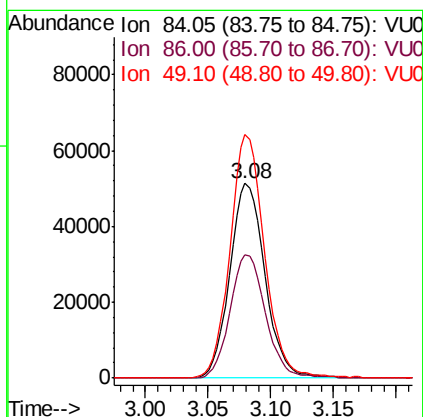
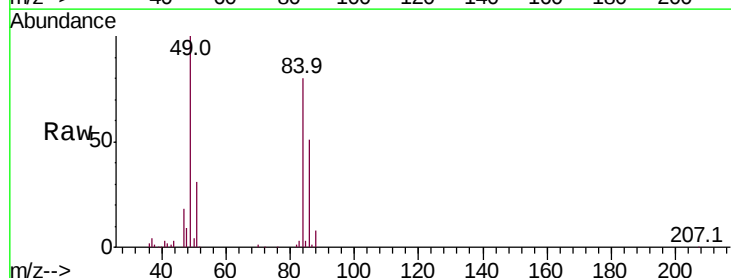
Instrument :
MSVOA_U
ClientSampleId :

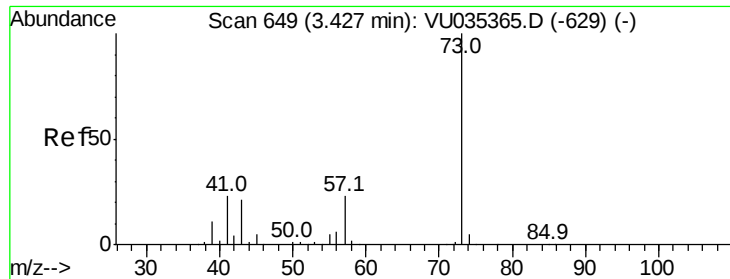
Tot Ion: 43 Resp: 38204
Ion Ratio Lower Upper
43 100
74 25.8 20.3 30.5



#16
Methylene chloride
Concen: 5.267 ug/L
RT: 3.08 min Scan# 541
Delta R.T. -0.00 min
Lab File: VU035409.D
Acq: 23 Oct 2019 14:54

Tgt Ion: 84 Resp: 100045
Ion Ratio Lower Upper
84 100
86 63.6 45.4 84.2
49 125.1 86.8 161.2

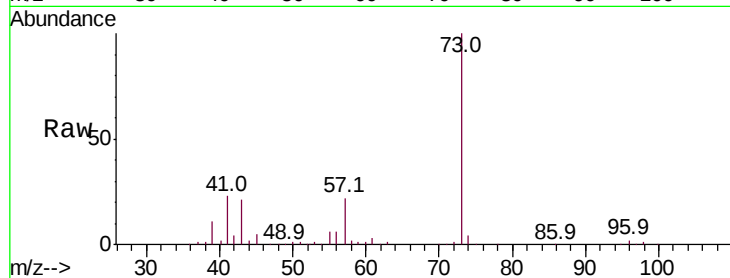




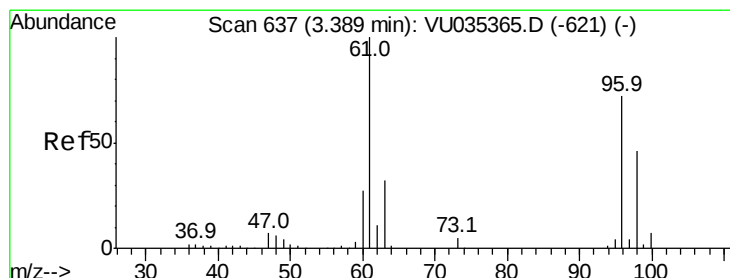
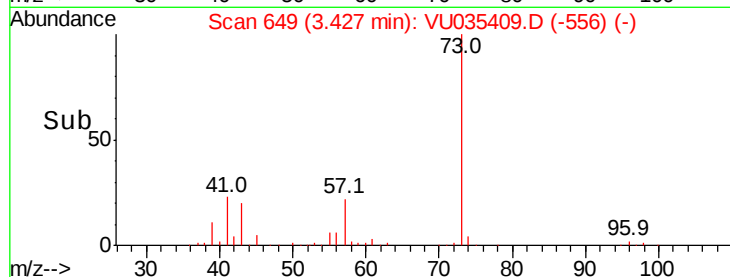
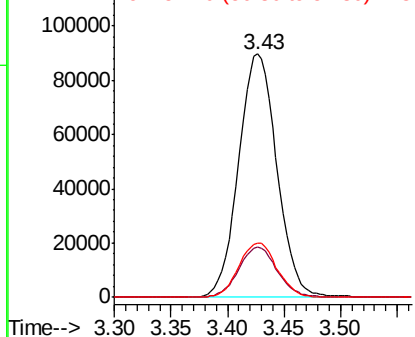
#17
Methvl tert-butvl Ether
Concen: 4.961 ug/L
RT: 3.43 min Scan# 649
Delta R.T. -0.00 min
Lab File: VU035409.D
Acq: 23 Oct 2019 14:54

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 73 Resp: 210843
Ion Ratio Lower Upper
73 100
43 21.1 16.0 24.0
57 22.4 17.4 26.2

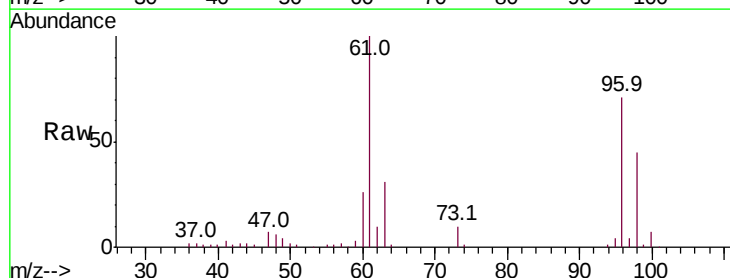


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

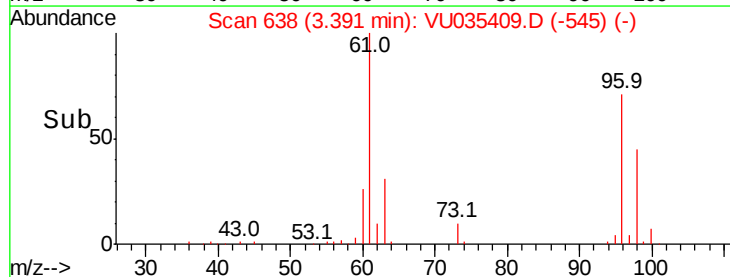
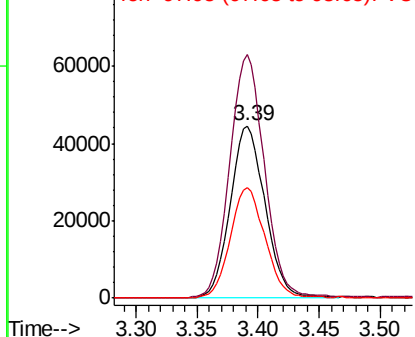


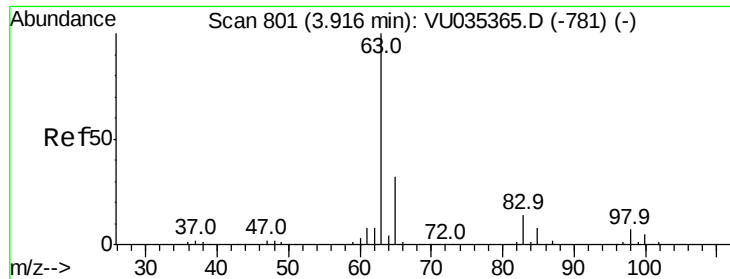
#18
trans-1,2-Dichloroethene
Concen: 5.200 ug/L
RT: 3.39 min Scan# 638
Delta R.T. -0.00 min
Lab File: VU035409.D
Acq: 23 Oct 2019 14:54

Tgt Ion: 96 Resp: 88616
Ion Ratio Lower Upper
96 100
61 141.5 93.0 172.6
98 64.3 43.7 81.1



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0



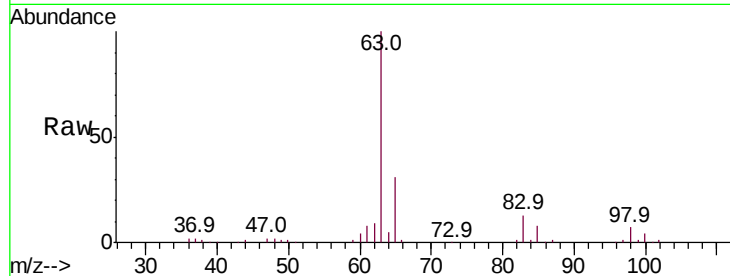


#19
 1,1-Dichloroethane
 Concen: 5.824 ug/L
 RT: 3.92 min Scan# 802
 Delta R.T. -0.00 min
 Lab File: VU035409.D
 Acq: 23 Oct 2019 14:54

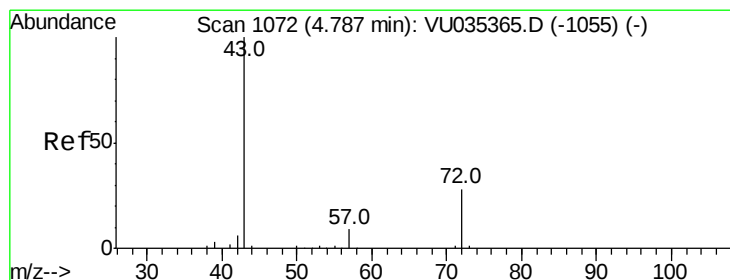
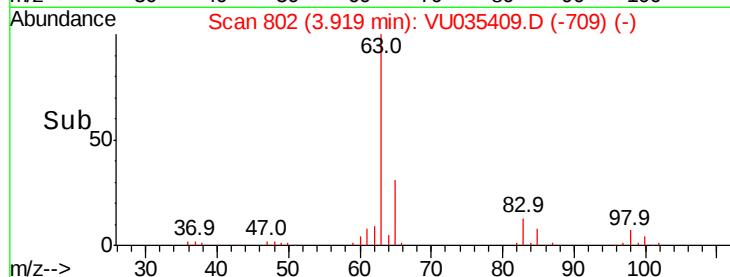
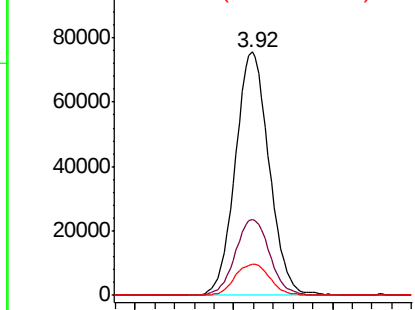
Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 63 Resp: 179479

Ion	Ratio	Lower	Upper
63	100		
65	31.0	22.4	41.6
83	12.6	9.3	17.3



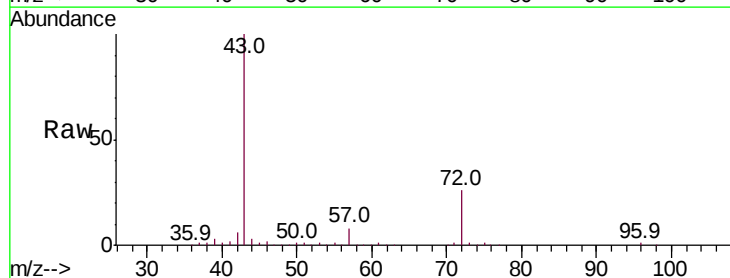
Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0



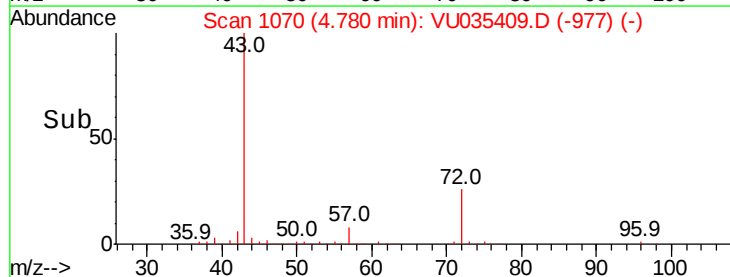
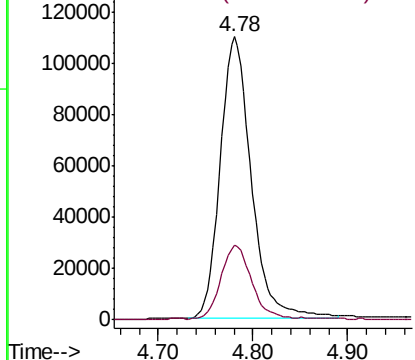
#21
 2-Butanone
 Concen: 51.184 ug/L
 RT: 4.78 min Scan# 1070
 Delta R.T. -0.00 min
 Lab File: VU035409.D
 Acq: 23 Oct 2019 14:54

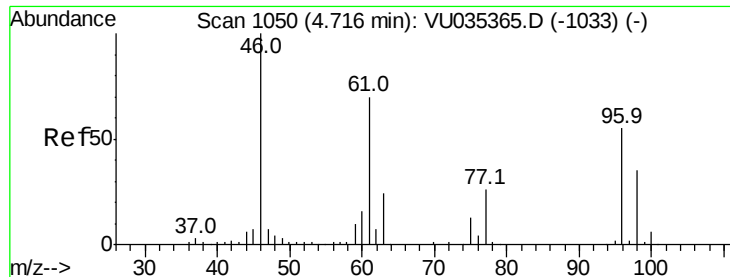
Tgt Ion: 43 Resp: 249910

Ion	Ratio	Lower	Upper
43	100		
72	25.7	13.6	40.8



Abundance Ion 43.05 (42.75 to 43.75): VU0
 Ion 72.10 (71.80 to 72.80): VU0

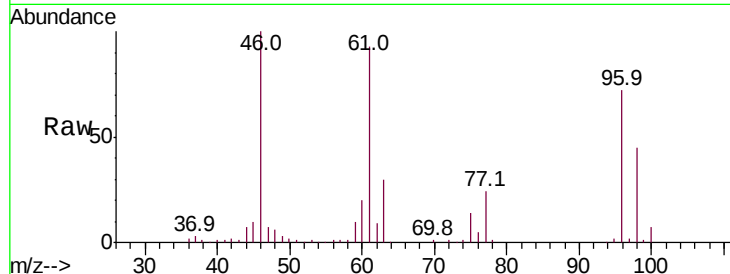




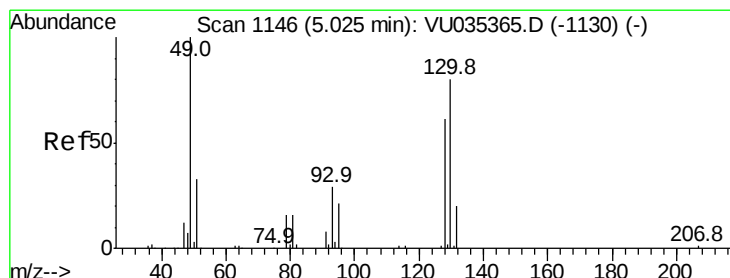
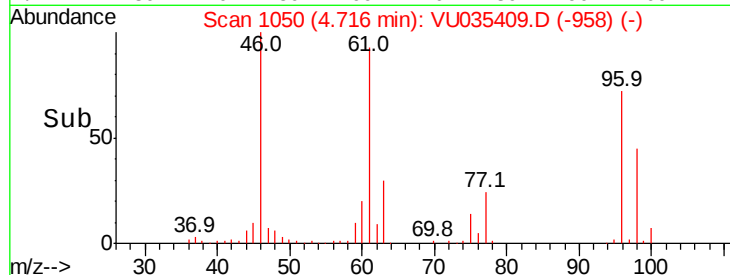
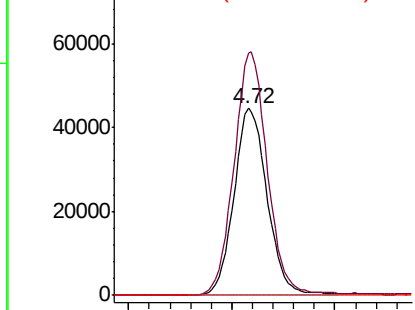
#22
 cis-1,2-Dichloroethene
 Concen: 5.309 ug/L
 RT: 4.72 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VU035409.D
 Acq: 23 Oct 2019 14:54

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 96 Resp: 99984
 Ion Ratio Lower Upper
 96 100
 61 129.9 89.7 166.5
 68 0.0 0.0 0.0

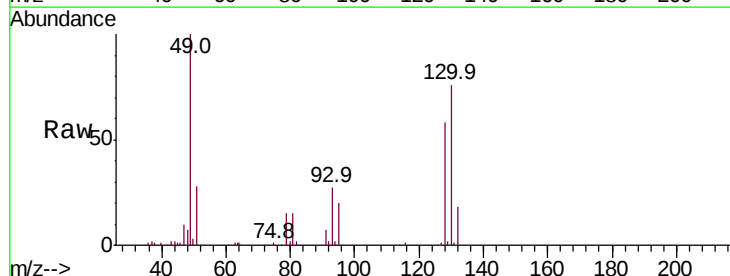


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0

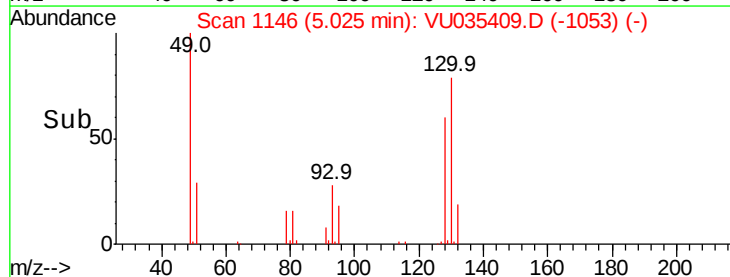
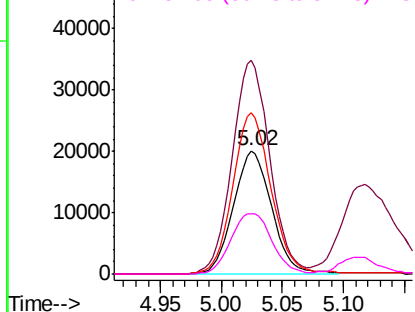


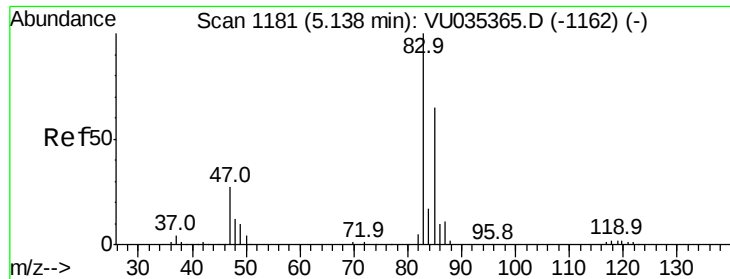
#23
 Bromochloromethane
 Concen: 5.380 ug/L
 RT: 5.02 min Scan# 1146
 Delta R.T. -0.00 min
 Lab File: VU035409.D
 Acq: 23 Oct 2019 14:54

Tgt Ion:128 Resp: 43621
 Ion Ratio Lower Upper
 128 100
 49 173.7 109.3 203.1
 130 131.4 88.7 164.7
 51 49.1 39.2 58.8



Abundance Ion 127.90 (127.60 to 128.60): V
 Ion 49.10 (48.80 to 49.80): VU0
 Ion 129.95 (129.65 to 130.65): V
 Ion 51.05 (50.75 to 51.75): VU0

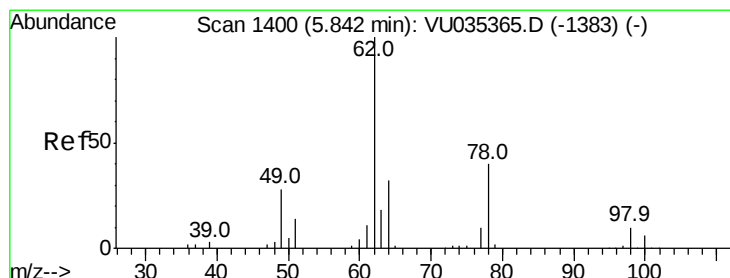
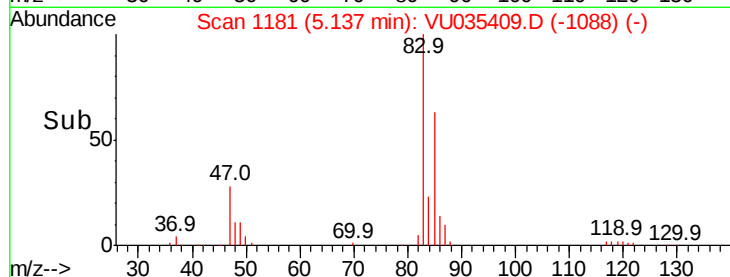
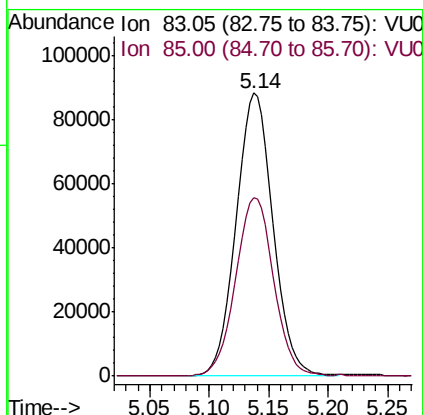
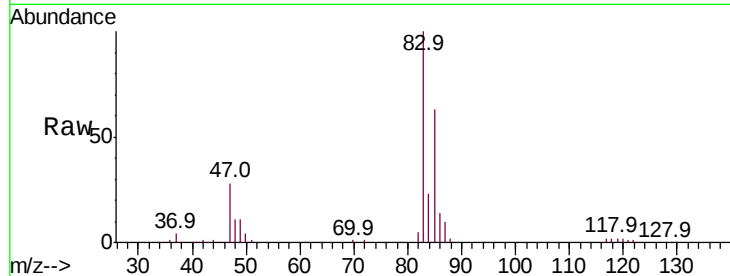




#25
Chloroform
Concen: 5.627 ug/L
RT: 5.14 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VU035409.D
Acq: 23 Oct 2019 14:54

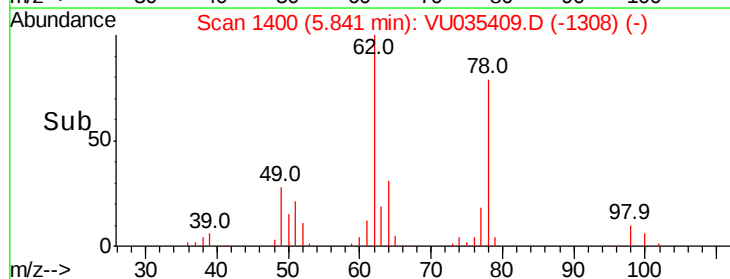
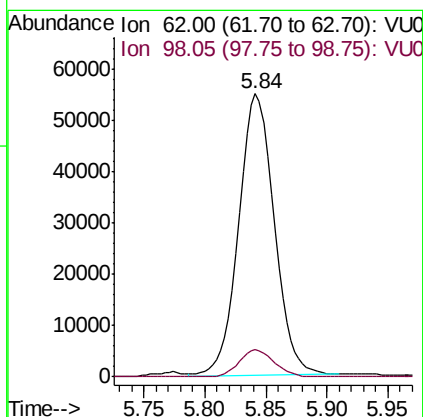
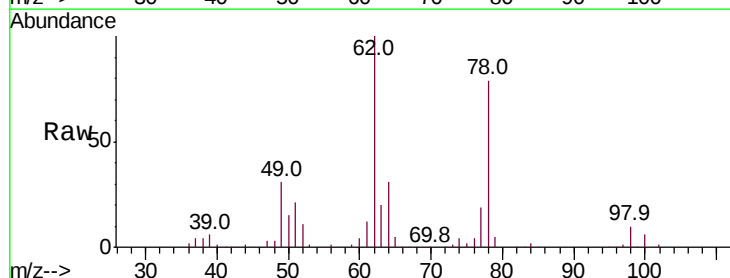
Instrument :
MSVOA_U
ClientSampleId :

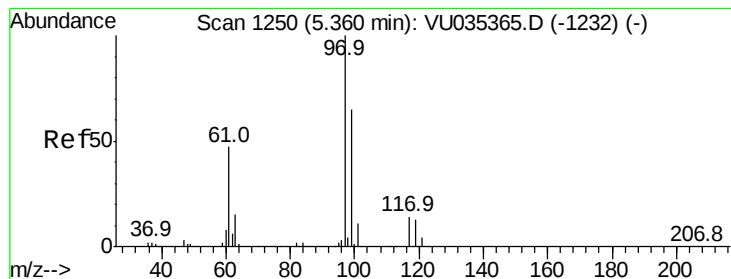
Tot Ion: 83 Resp: 190243
Ion Ratio Lower Upper
83 100
85 63.1 45.1 83.9



#27
1,2-Dichloroethane
Concen: 5.350 ug/L
RT: 5.84 min Scan# 1400
Delta R.T. -0.00 min
Lab File: VU035409.D
Acq: 23 Oct 2019 14:54

Tgt Ion: 62 Resp: 110931
Ion Ratio Lower Upper
62 100
98 9.6 7.8 11.6





#29

1,1,1-Trichloroethane

Concen: 5.233 ug/L

RT: 5.36 min Scan# 1251

Delta R.T. -0.00 min

Lab File: VU035409.D

Acq: 23 Oct 2019 14:54

Instrument :
MSVOA_U
ClientSampleId :

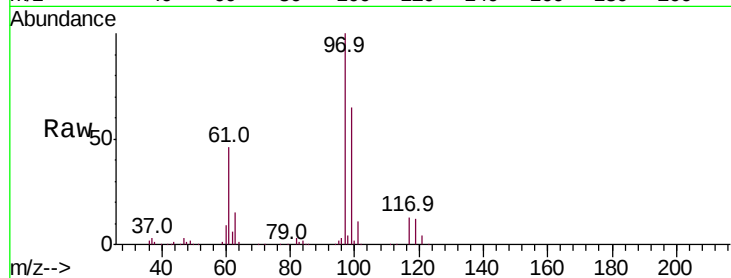
Tot Ion: 97 Resp: 150098

Ion Ratio Lower Upper

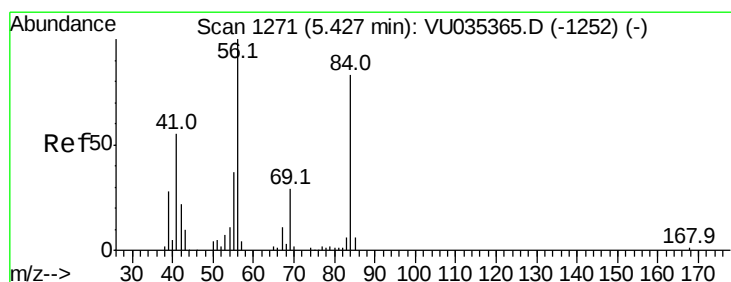
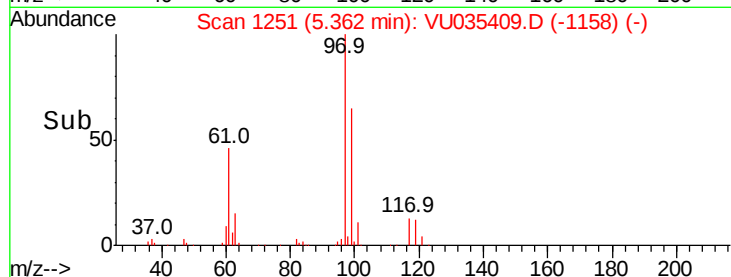
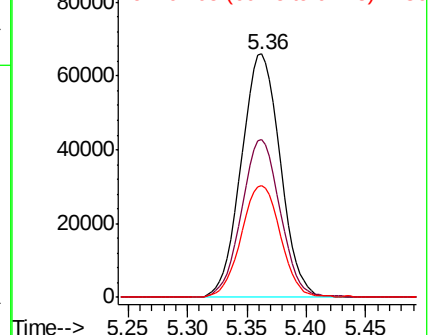
97 100

99 64.3 52.6 79.0

61 46.4 37.0 55.4



Abundance Ion 96.95 (96.65 to 97.65): VU0
Ion 99.05 (98.75 to 99.75): VU0
Ion 61.05 (60.75 to 61.75): VU0



#30

Cyclohexane

Concen: 4.606 ug/L

RT: 5.43 min Scan# 1272

Delta R.T. -0.00 min

Lab File: VU035409.D

Acq: 23 Oct 2019 14:54

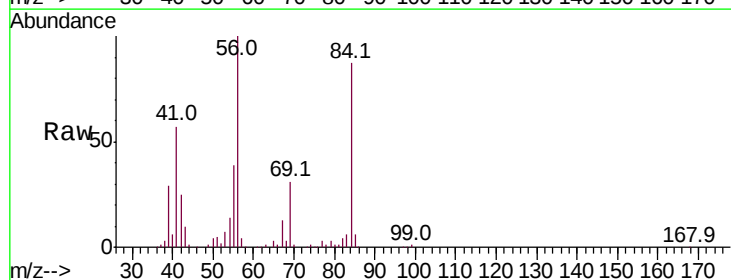
Tgt Ion: 56 Resp: 141489

Ion Ratio Lower Upper

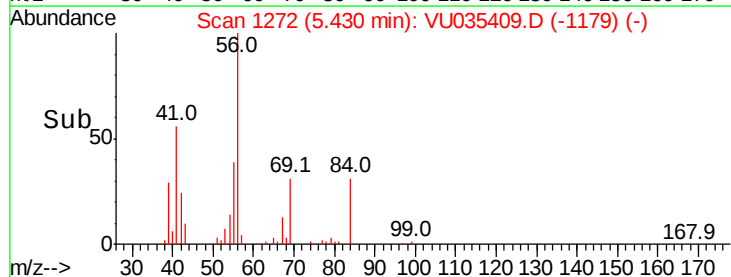
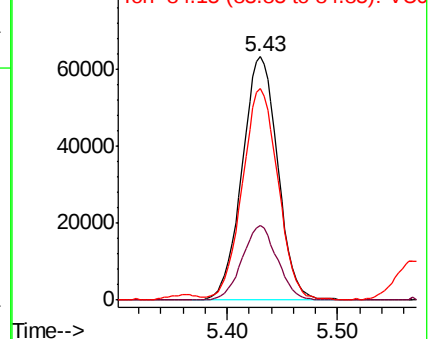
56 100

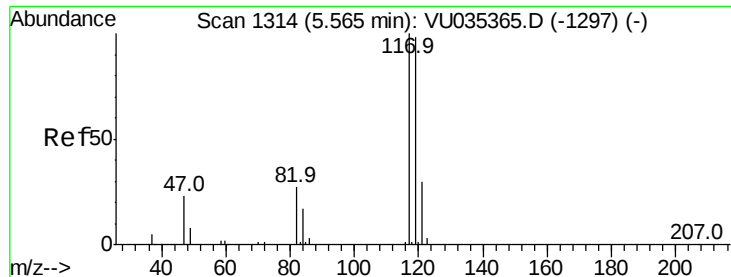
69 30.2 24.6 36.8

84 86.9 71.5 107.3



Abundance Ion 56.10 (55.80 to 56.80): VU0
Ion 69.15 (68.85 to 69.85): VU0
Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 5.091 ug/L

RT: 5.57 min Scan# 1315

Delta R.T. -0.00 min

Lab File: VU035409.D

Acq: 23 Oct 2019 14:54

Instrument :

MSVOA_U

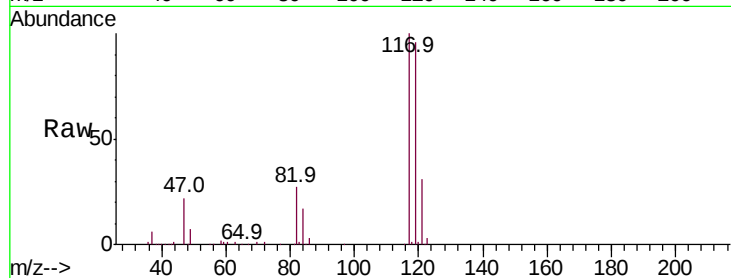
ClientSampleId :

Tot Ion:117 Resp: 131481

Ion Ratio Lower Upper

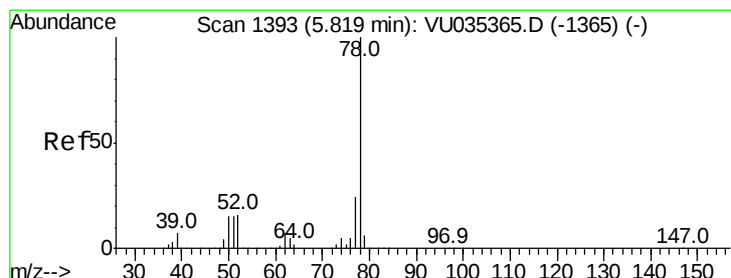
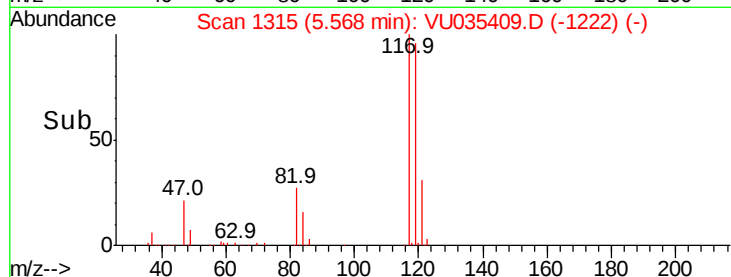
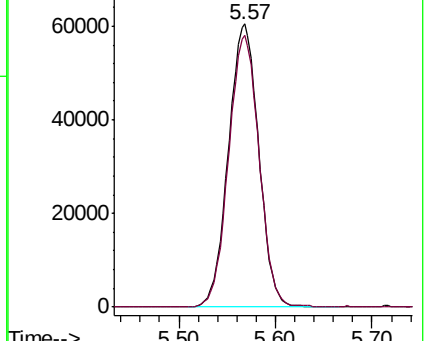
117 100

119 96.5 77.4 116.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.426 ug/L

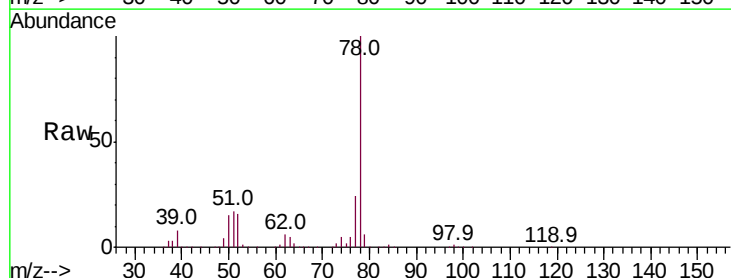
RT: 5.82 min Scan# 1393

Delta R.T. -0.00 min

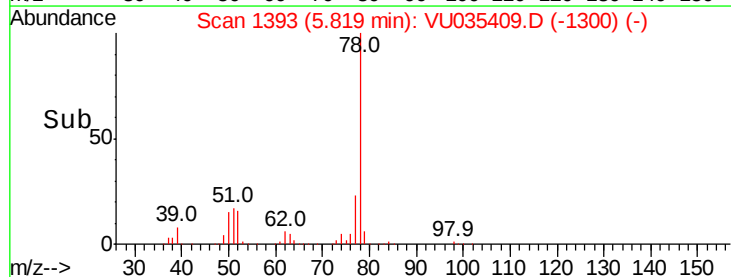
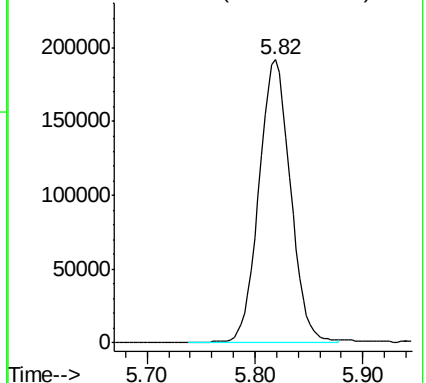
Lab File: VU035409.D

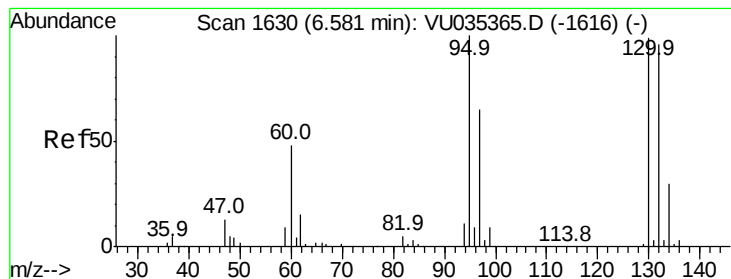
Acq: 23 Oct 2019 14:54

Tgt Ion: 78 Resp: 390940



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 5.048 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VU035409.D

Acq: 23 Oct 2019 14:54

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 95 Resp: 97784

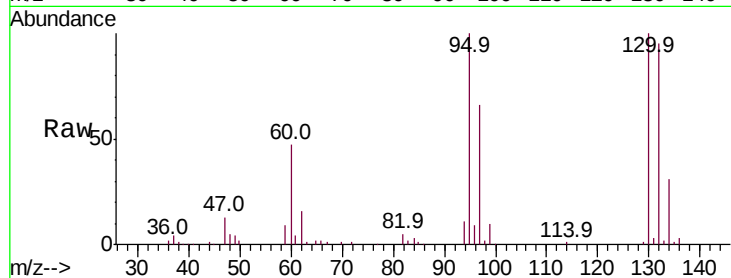
Ion Ratio Lower Upper

95 100

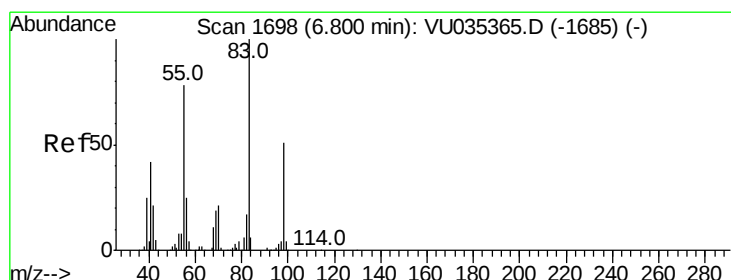
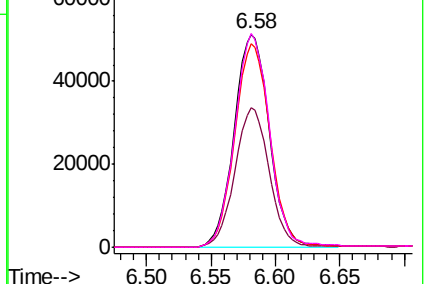
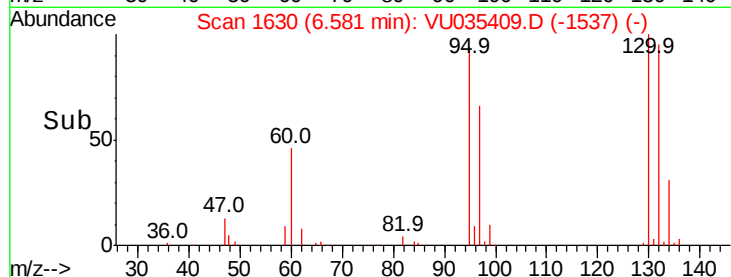
97 65.7 46.6 86.6

132 95.3 68.7 127.7

130 100.2 73.9 137.3



Abundance Ion 95.00 (94.70 to 95.70): VU0
Ion 96.95 (96.65 to 97.65): VU0
Ion 131.95 (131.65 to 132.65): V
Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 4.464 ug/L

RT: 6.80 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VU035409.D

Acq: 23 Oct 2019 14:54

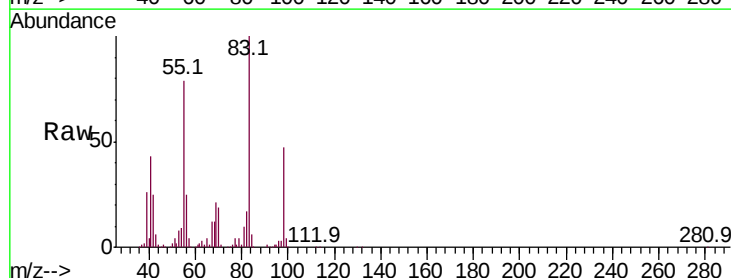
Tgt Ion: 83 Resp: 144518

Ion Ratio Lower Upper

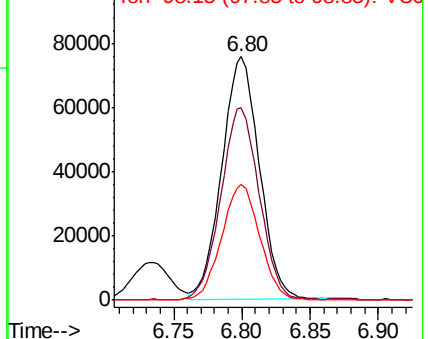
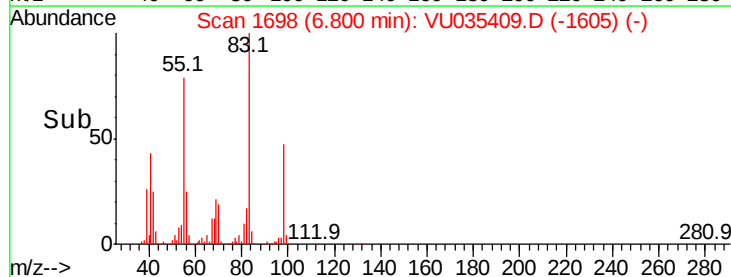
83 100

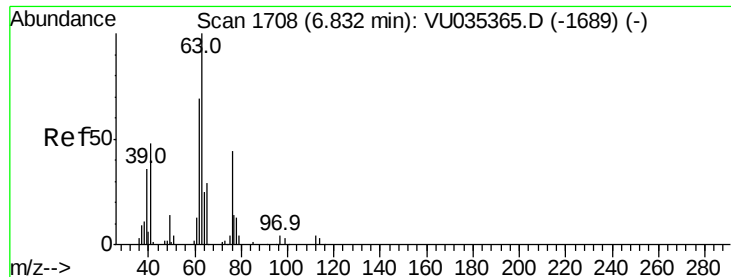
55 81.2 60.4 90.6

98 48.6 39.5 59.3



Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 5.544 ug/L

RT: 6.83 min Scan# 1708

Delta R.T. -0.00 min

Lab File: VU035409.D

Acq: 23 Oct 2019 14:54

Instrument :

MSVOA_U

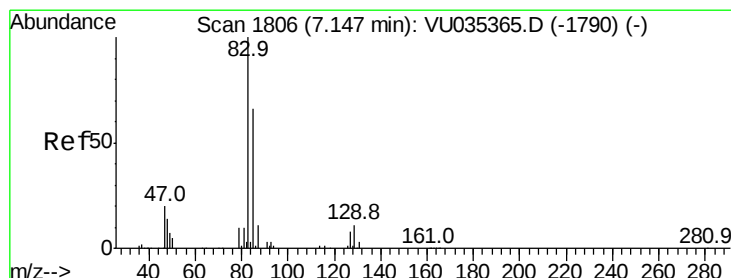
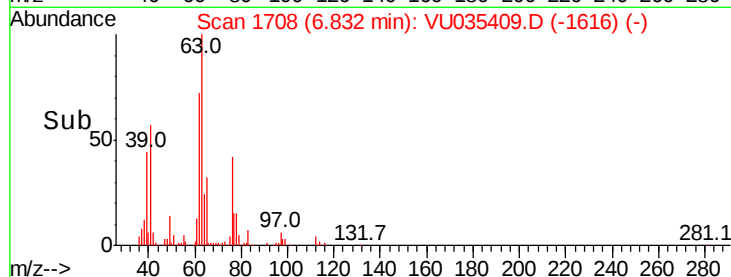
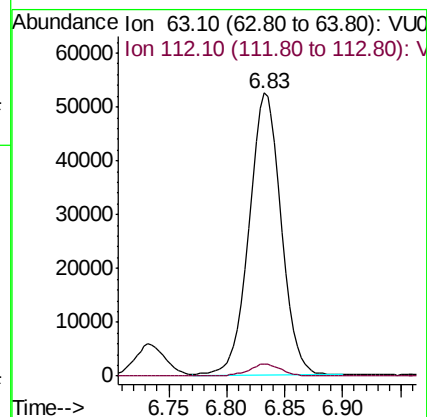
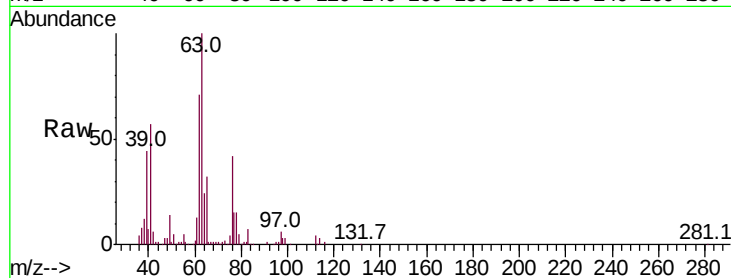
ClientSampleId :

Tot Ion: 63 Resp: 101391

Ion Ratio Lower Upper

63 100

112 4.3 3.7 5.5



#38

Bromodichloromethane

Concen: 5.292 ug/L

RT: 7.15 min Scan# 1806

Delta R.T. -0.00 min

Lab File: VU035409.D

Acq: 23 Oct 2019 14:54

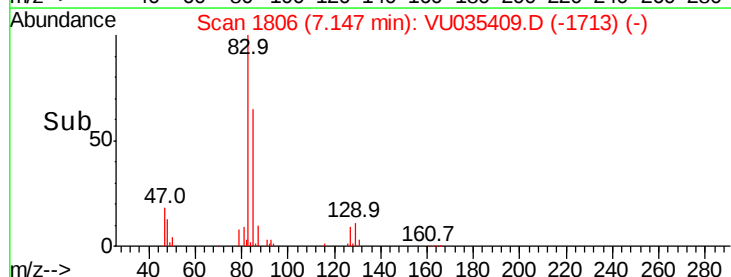
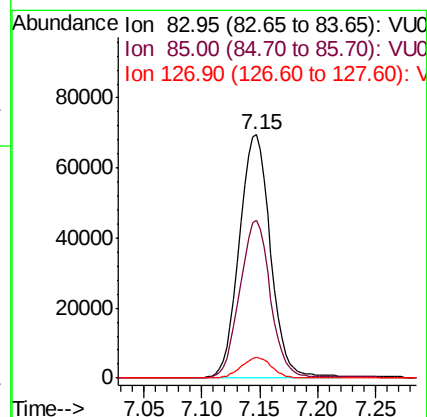
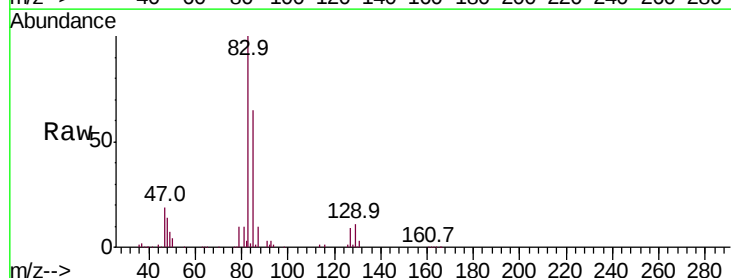
Tgt Ion: 83 Resp: 130396

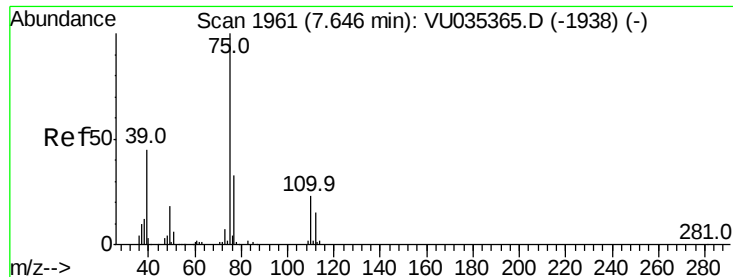
Ion Ratio Lower Upper

83 100

85 64.8 45.6 84.8

127 8.7 6.9 10.3





#39

cis-1,3-Dichloropropene

Concen: 4.758 ug/L

RT: 7.65 min Scan# 1961

Delta R.T. -0.00 min

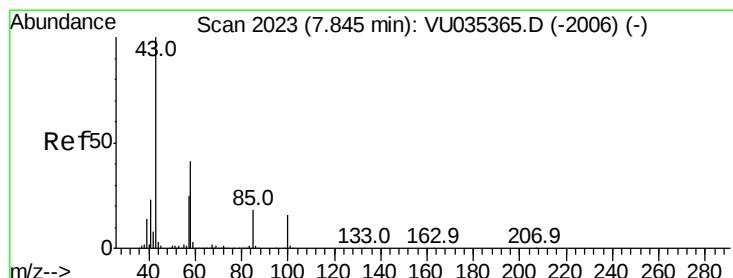
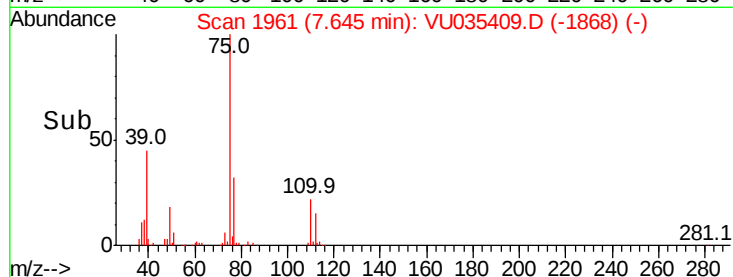
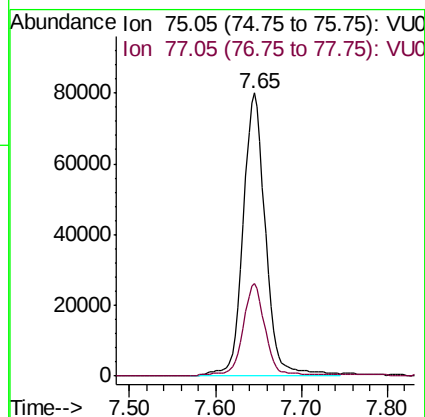
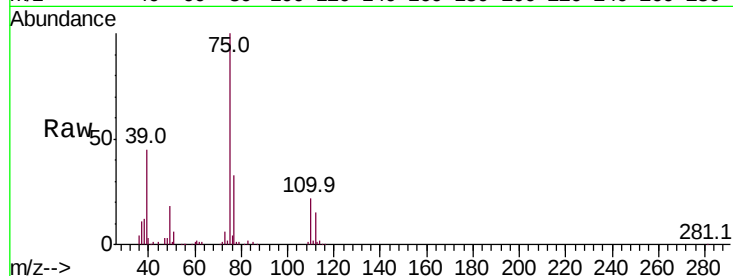
Lab File: VU035409.D

Acq: 23 Oct 2019 14:54

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 75 Resp: 145643

Ion	Ratio	Lower	Upper
75	100		
77	32.6	22.7	42.1



#40

4-Methyl-2-pentanone

Concen: 49.626 ug/L

RT: 7.84 min Scan# 2023

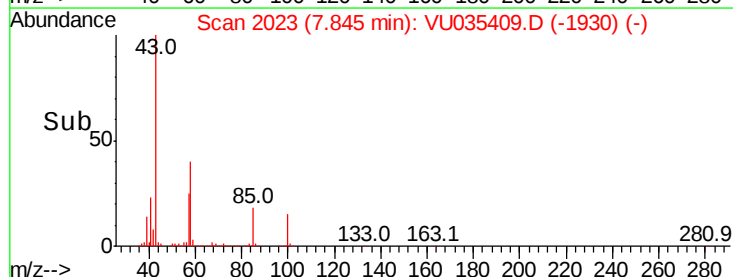
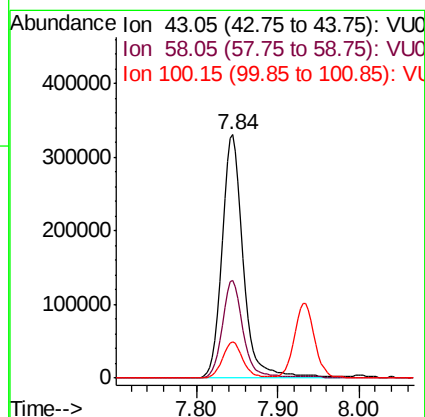
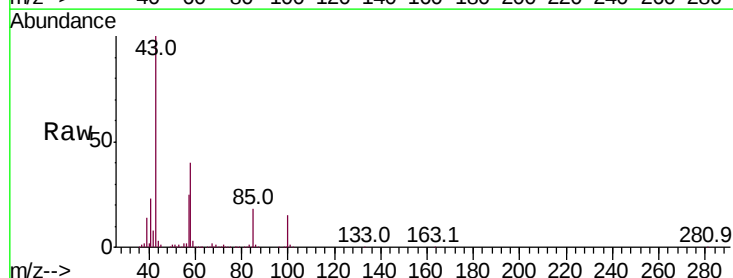
Delta R.T. -0.00 min

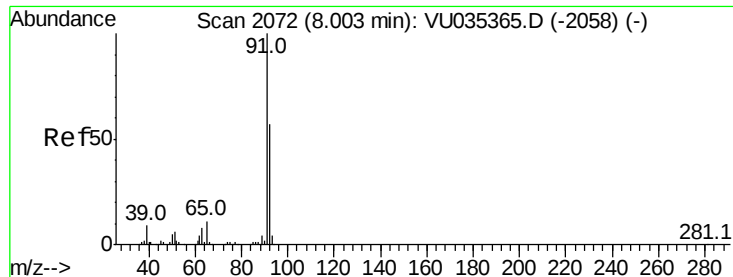
Lab File: VU035409.D

Acq: 23 Oct 2019 14:54

Tgt Ion: 43 Resp: 612719

Ion	Ratio	Lower	Upper
43	100		
58	39.1	32.3	48.5
100	14.5	13.4	20.2





#42

Toluene

Concen: 5.226 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. -0.00 min

Lab File: VU035409.D

Acq: 23 Oct 2019 14:54

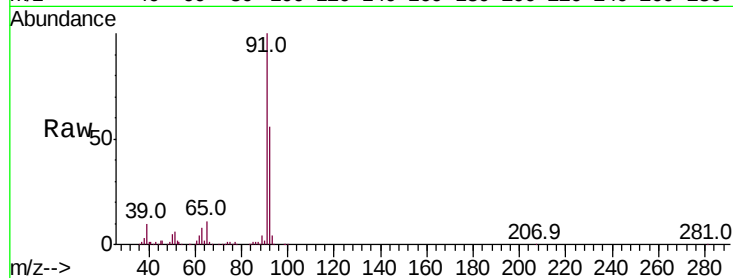
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 415635

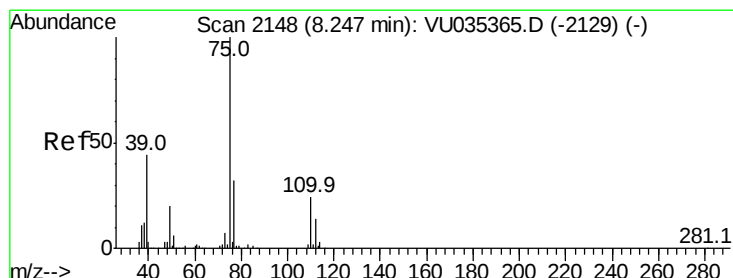
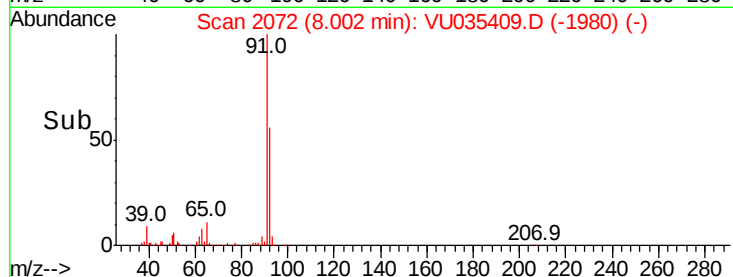
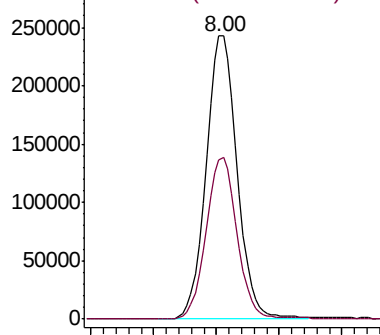
Ion Ratio Lower Upper

91 100

92 56.4 39.9 74.1



Abundance Ion 91.15 (90.85 to 91.85): VU0
Ion 92.15 (91.85 to 92.85): VU0



#44

trans-1,3-Dichloropropene

Concen: 4.728 ug/L

RT: 8.25 min Scan# 2148

Delta R.T. -0.00 min

Lab File: VU035409.D

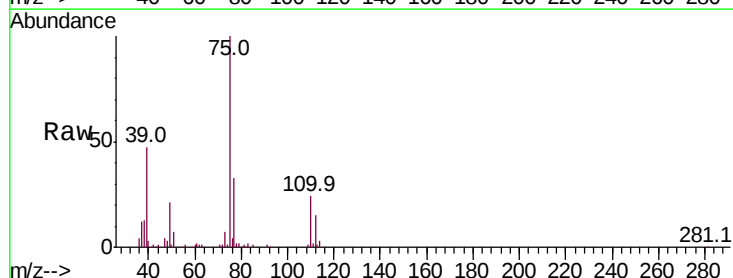
Acq: 23 Oct 2019 14:54

Tgt Ion: 75 Resp: 118290

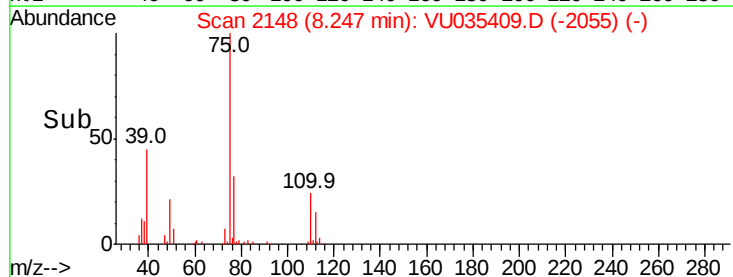
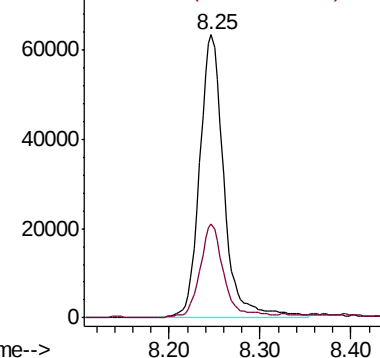
Ion Ratio Lower Upper

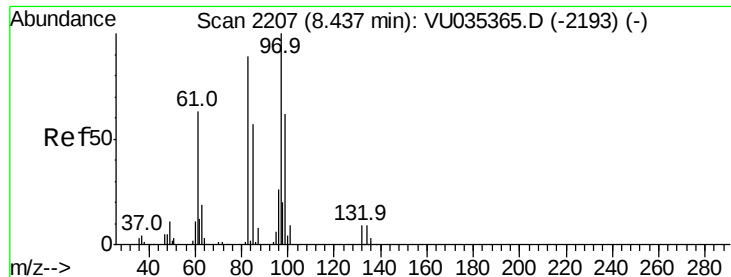
75 100

77 33.0 23.0 42.8



Abundance Ion 75.05 (74.75 to 75.75): VU0
Ion 77.05 (76.75 to 77.75): VU0





#45

1,1,2-Trichloroethane

Concen: 5.184 ug/L

RT: 8.44 min Scan# 2207

Delta R.T. -0.00 min

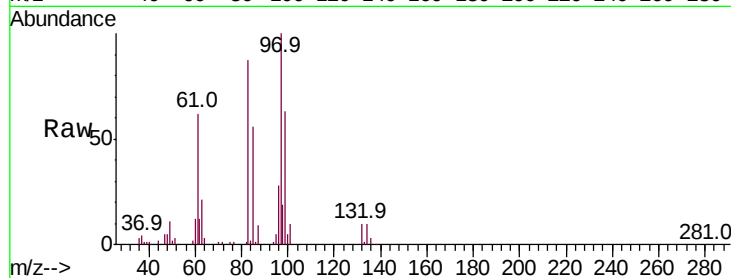
Lab File: VU035409.D

Acq: 23 Oct 2019 14:54

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 97 Resp: 70387

Ion	Ratio	Lower	Upper
97	100		
99	62.7	42.9	79.7
83	86.9	60.4	112.2
85	56.3	38.4	71.2



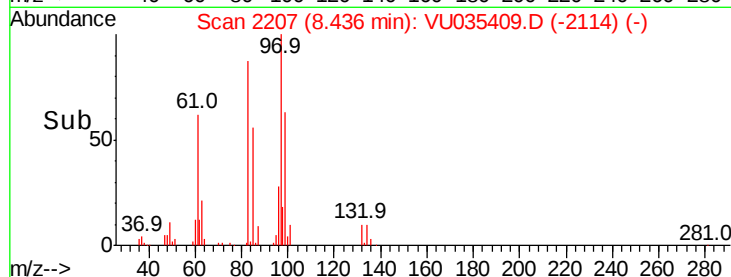
Abundance

Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



Time-->

8.35 8.40 8.45 8.50

Abundance

Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Time-->

8.35 8.40 8.45 8.50

Abundance

Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Time-->

8.35 8.40 8.45 8.50

Abundance

Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Time-->

8.35 8.40 8.45 8.50

Abundance

Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Time-->

8.35 8.40 8.45 8.50

Abundance

Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Time-->

8.35 8.40 8.45 8.50

Abundance

Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Time-->

8.35 8.40 8.45 8.50

Abundance

Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Time-->

8.35 8.40 8.45 8.50

Abundance

Ion 96.95 (96.65 to 97.65): VU0

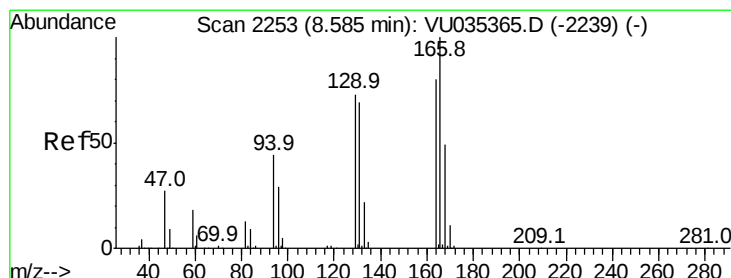
Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Time-->

8.35 8.40 8.45 8.50



#47

Tetrachloroethene

Concen: 4.867 ug/L

RT: 8.58 min Scan# 2253

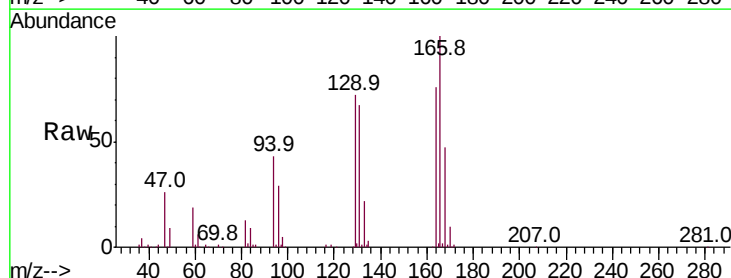
Delta R.T. -0.00 min

Lab File: VU035409.D

Acq: 23 Oct 2019 14:54

Tgt Ion:164 Resp: 78530

Ion	Ratio	Lower	Upper
164	100		
129	95.0	65.2	121.0
131	88.3	62.9	116.9
166	131.9	91.5	169.9



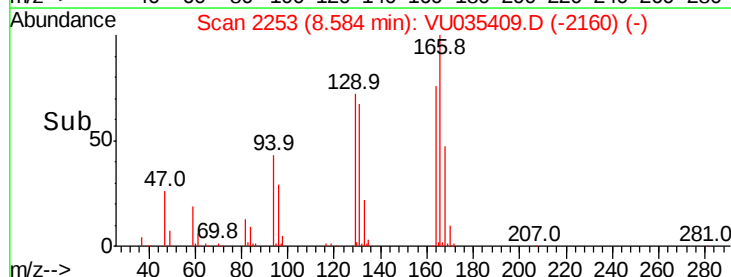
Abundance

Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



Time-->

8.50 8.55 8.60 8.65

Abundance

Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

Time-->

8.50 8.55 8.60 8.65

Abundance

Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

Time-->

8.50 8.55 8.60 8.65

Abundance

Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

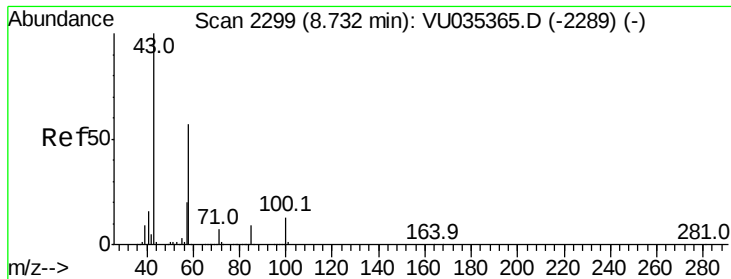
Ion 165.90 (165.60 to 166.60): V

Time-->

8.50 8.55 8.60 8.65

Abundance

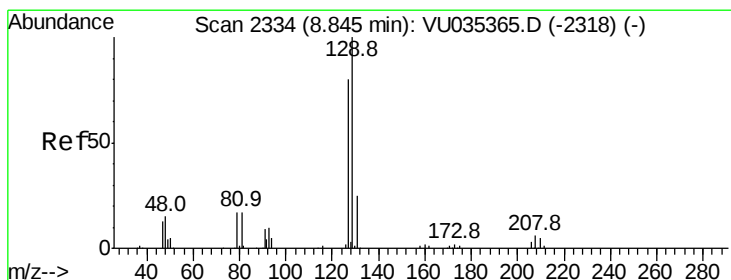
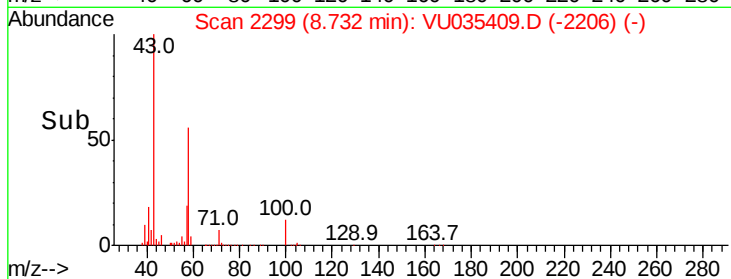
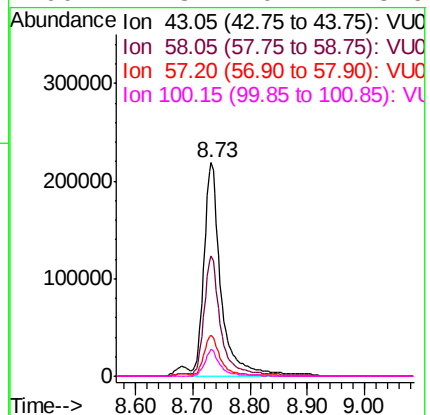
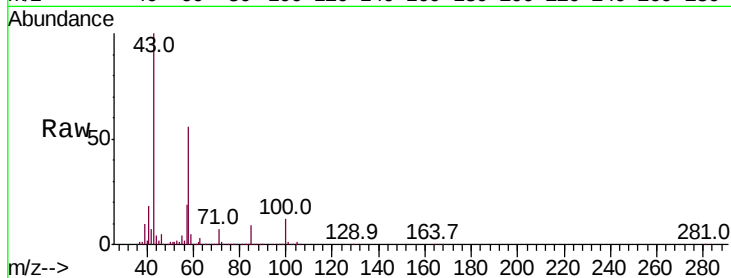
Ion 163.90 (163.60 to 164.60): V



#48
2-Hexanone
Concen: 52.845 ug/L
RT: 8.73 min Scan# 2299
Delta R.T. -0.00 min
Lab File: VU035409.D
Acq: 23 Oct 2019 14:54

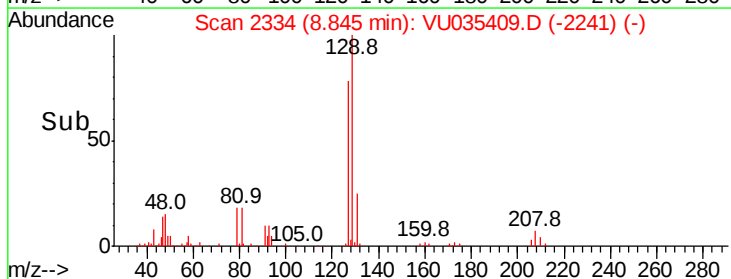
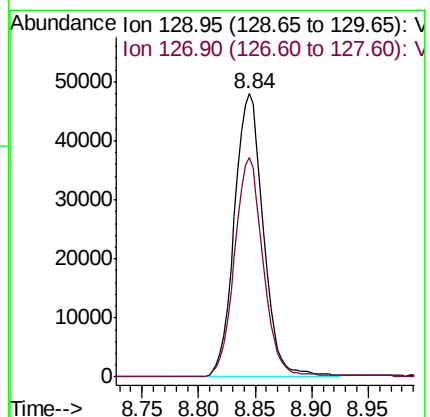
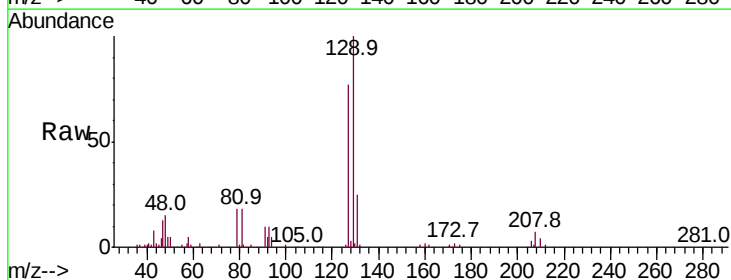
Instrument :
MSVOA_U
ClientSampleId :

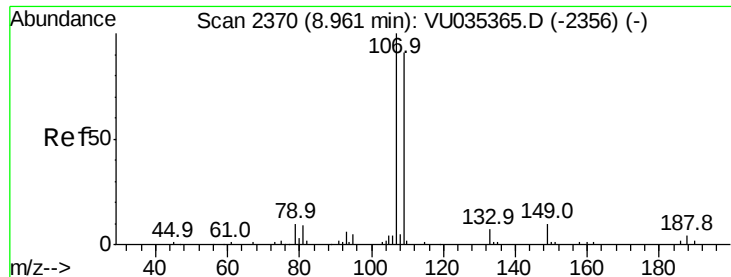
Tot Ion: 43 Resp: 457576
Ion Ratio Lower Upper
43 100
58 53.2 45.1 67.7
57 18.3 16.0 24.0
100 11.3 10.4 15.6



#49
Dibromochloromethane
Concen: 4.979 ug/L
RT: 8.84 min Scan# 2334
Delta R.T. -0.00 min
Lab File: VU035409.D
Acq: 23 Oct 2019 14:54

Tgt Ion: 129 Resp: 85718
Ion Ratio Lower Upper
129 100
127 77.5 53.8 99.8

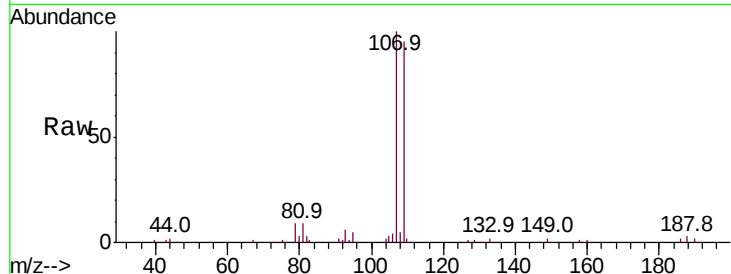




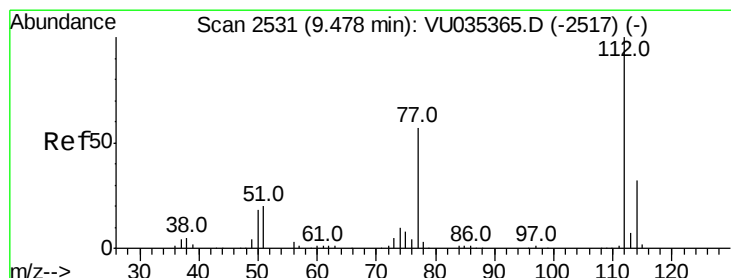
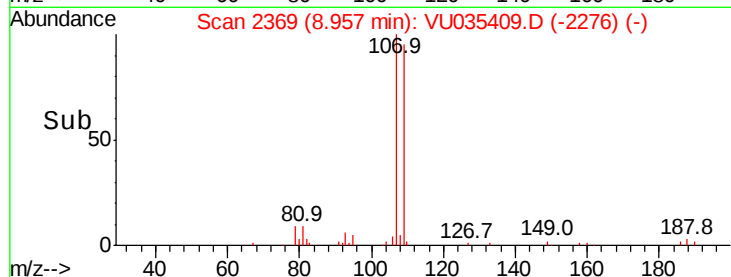
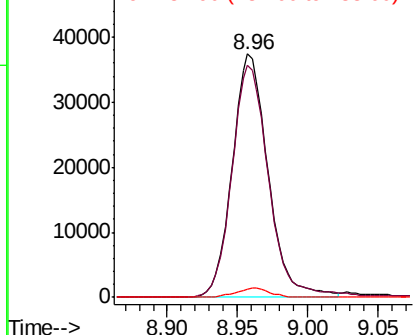
#50
1,2-Dibromoethane
Concen: 4.909 ug/L
RT: 8.96 min Scan# 2369
Delta R.T. -0.00 min
Lab File: VU035409.D
Acq: 23 Oct 2019 14:54

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.2	66.1	122.8
188	3.4	3.2	4.8

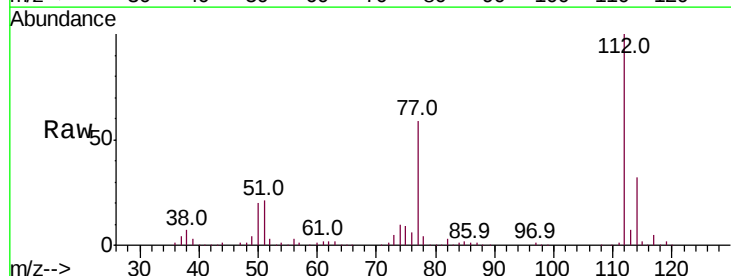


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

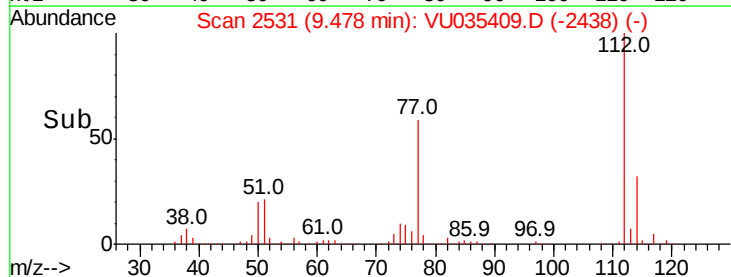
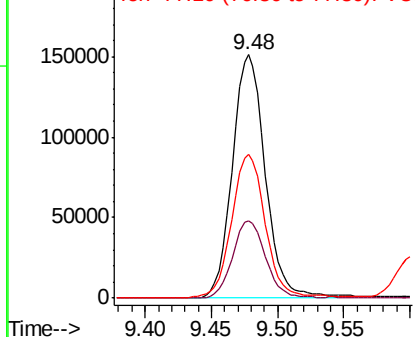


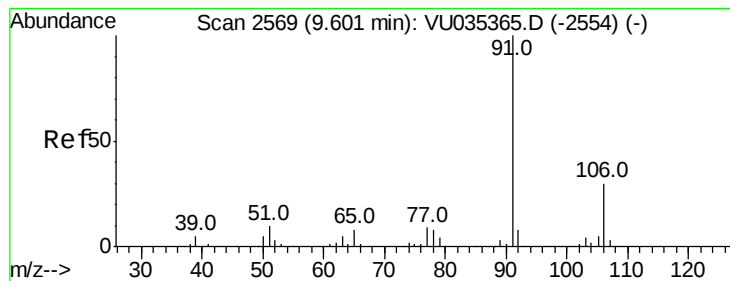
#51
Chlorobenzene
Concen: 5.077 ug/L
RT: 9.48 min Scan# 2531
Delta R.T. -0.00 min
Lab File: VU035409.D
Acq: 23 Oct 2019 14:54

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.0	23.0	42.8
77	59.1	47.5	71.3



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 4.904 ug/L

RT: 9.60 min Scan# 2569

Delta R.T. -0.00 min

Lab File: VU035409.D

Acq: 23 Oct 2019 14:54

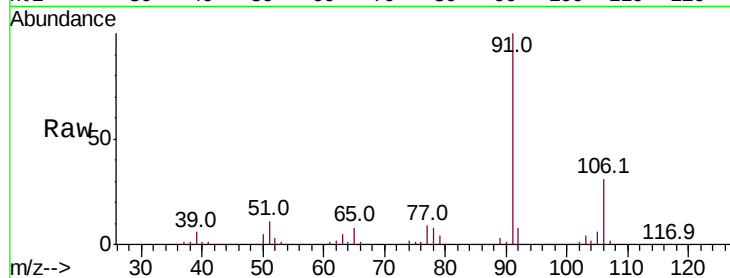
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 443466

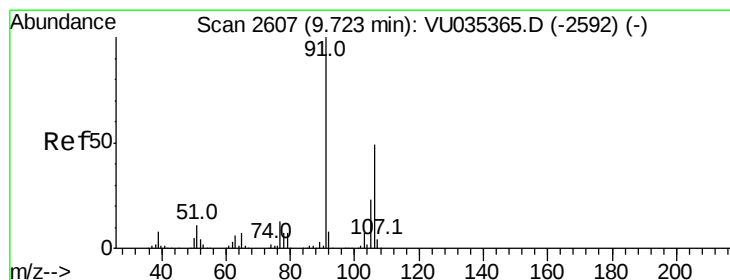
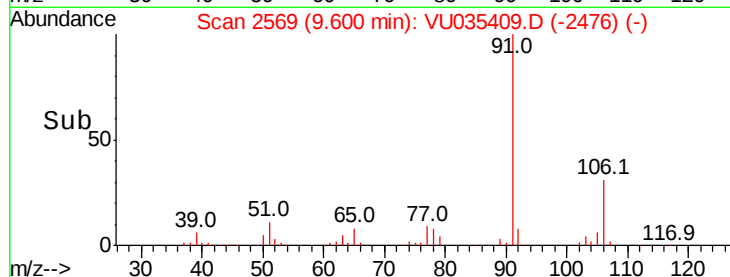
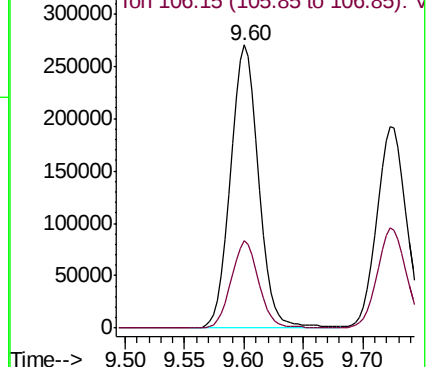
Ion Ratio Lower Upper

91 100

106 30.7 21.3 39.6



Abundance Ion 91.15 (90.85 to 91.85): VU035365.D (-2554) (-)



#53

m,p-Xylene

Concen: 4.716 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VU035409.D

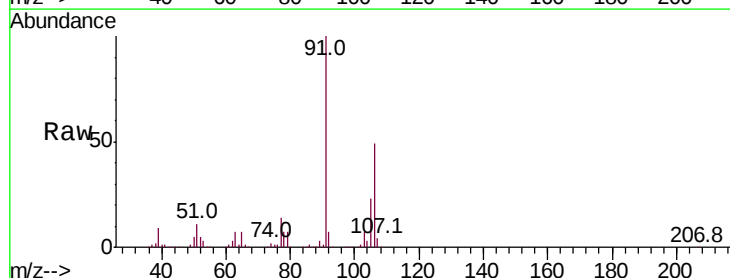
Acq: 23 Oct 2019 14:54

Tgt Ion: 106 Resp: 161057

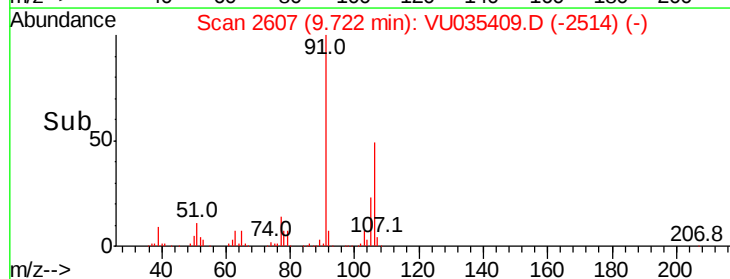
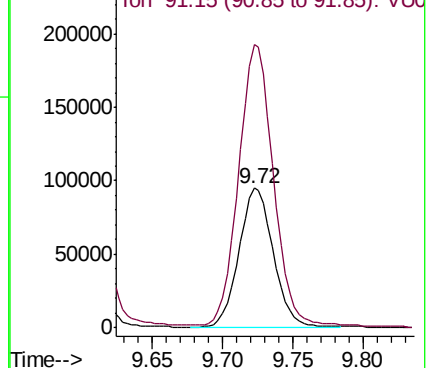
Ion Ratio Lower Upper

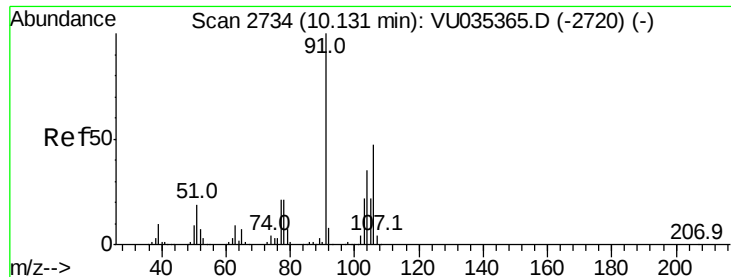
106 100

91 202.2 142.0 263.6



Abundance Ion 106.15 (105.85 to 106.85): VU035365.D (-2592) (-)

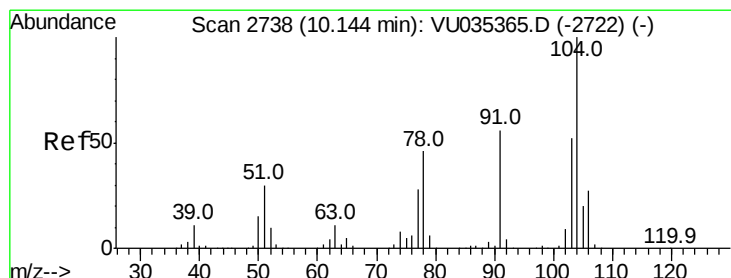
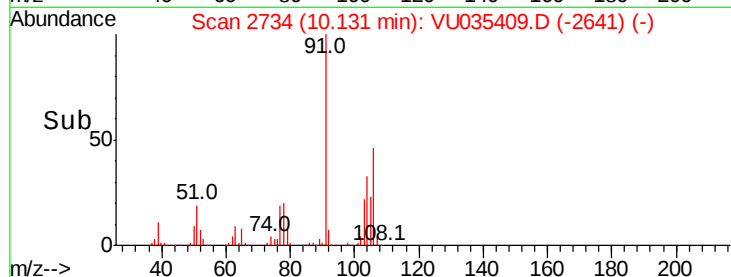
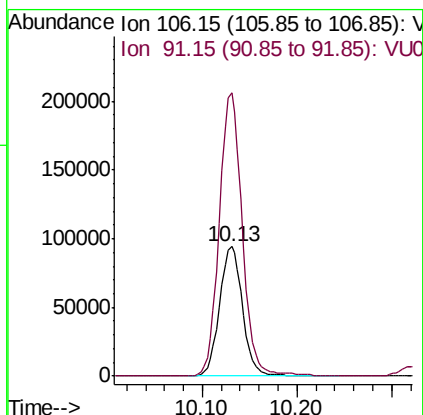
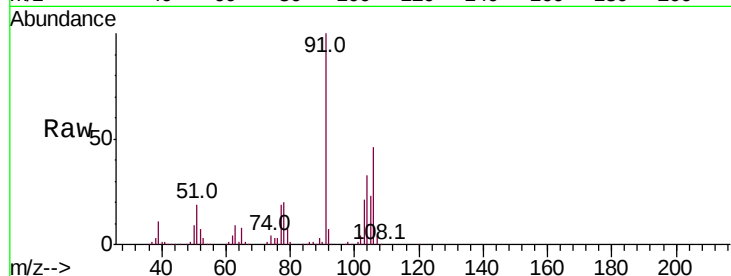




#54
o-Xylene
Concen: 4.792 ug/L
RT: 10.13 min Scan# 2734
Delta R.T. -0.00 min
Lab File: VU035409.D
Acq: 23 Oct 2019 14:54

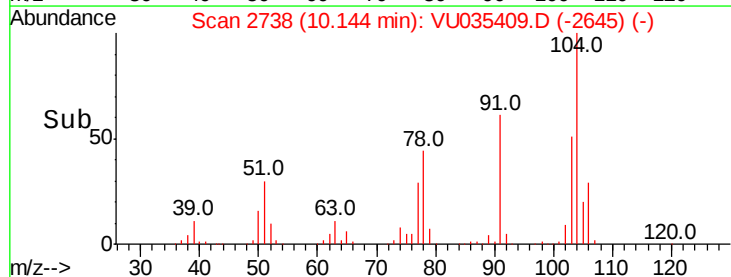
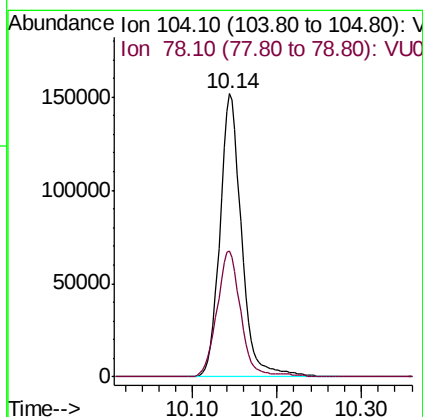
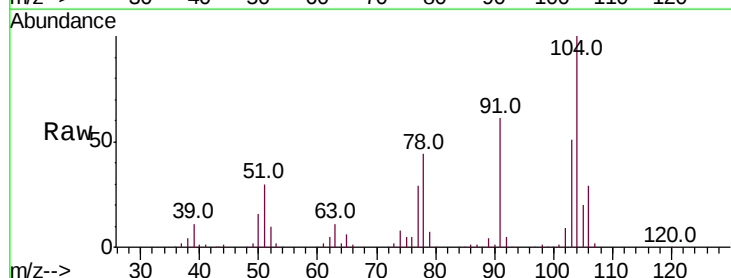
Instrument :
MSVOA_U
ClientSampled :

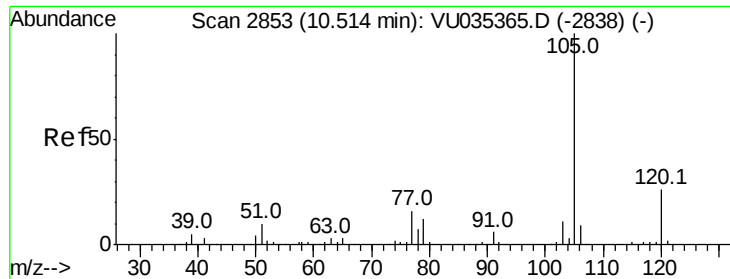
Tot Ion:106 Resp: 159705
Ion Ratio Lower Upper
106 100
91 218.4 153.2 284.6



#55
Styrene
Concen: 4.989 ug/L
RT: 10.14 min Scan# 2738
Delta R.T. -0.00 min
Lab File: VU035409.D
Acq: 23 Oct 2019 14:54

Tgt Ion:104 Resp: 270724
Ion Ratio Lower Upper
104 100
78 44.4 31.3 58.1





#56

Isopropylbenzene

Concen: 4.715 ug/L

RT: 10.51 min Scan# 2853

Delta R.T. -0.00 min

Lab File: VU035409.D

Acq: 23 Oct 2019 14:54

Instrument :

MSVOA_U

ClientSampleId :

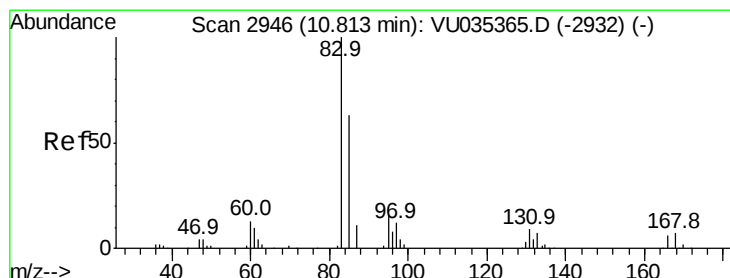
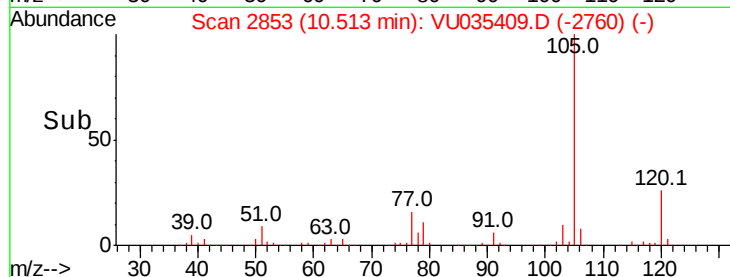
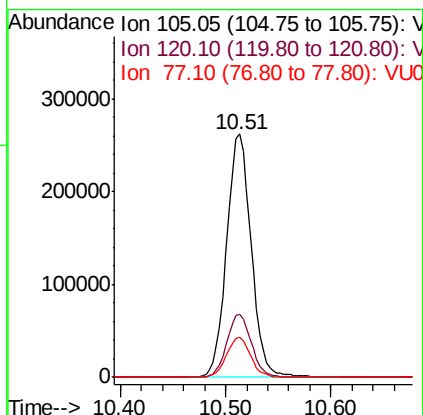
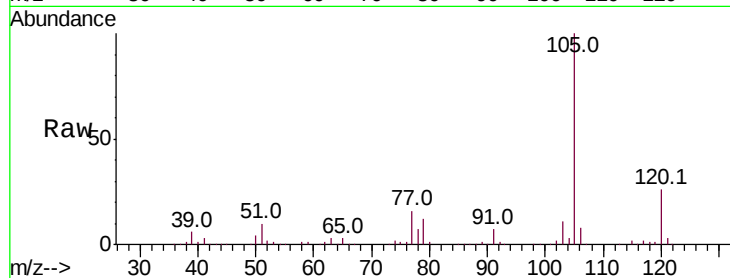
Tot Ion:105 Resp: 422715

Ion Ratio Lower Upper

105 100

120 26.0 21.0 31.6

77 16.3 12.6 19.0



#58

1,1,2,2-Tetrachloroethane

Concen: 5.412 ug/L

RT: 10.81 min Scan# 2946

Delta R.T. -0.00 min

Lab File: VU035409.D

Acq: 23 Oct 2019 14:54

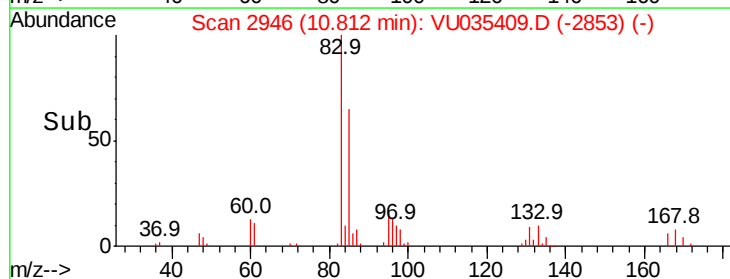
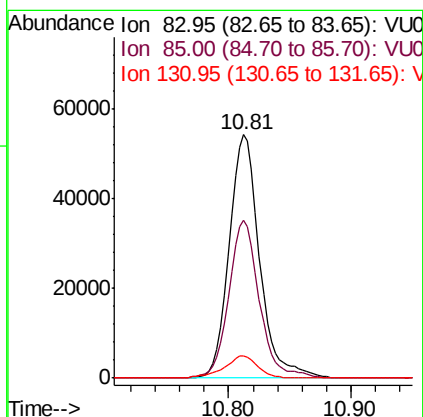
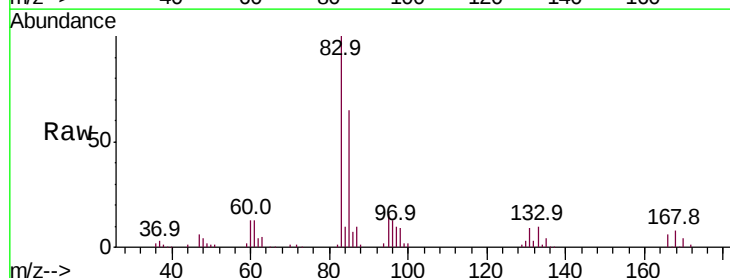
Tgt Ion: 83 Resp: 94564

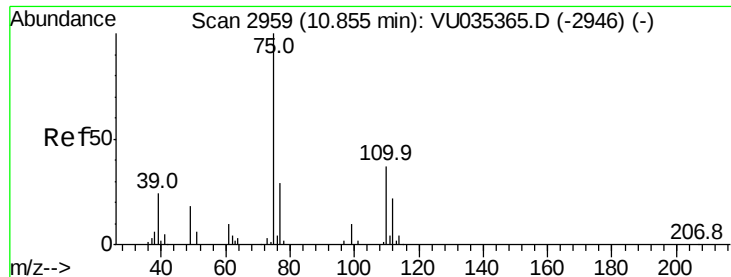
Ion Ratio Lower Upper

83 100

85 65.0 46.8 86.8

131 9.1 7.5 11.3





#59

1,2,3-Trichloropropane

Concen: 5.227 ug/L

RT: 10.85 min Scan# 2959

Delta R.T. -0.00 min

Lab File: VU035409.D

Acq: 23 Oct 2019 14:54

Instrument :

MSVOA_U

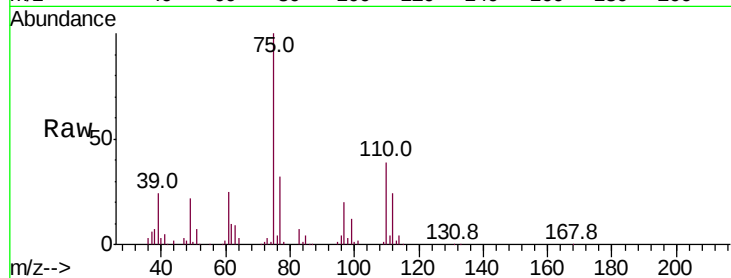
ClientSampleId :

Tot Ion: 75 Resp: 66605

Ion Ratio Lower Upper

75 100

77 31.5 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VU035365.D (-2946) (-)

Ion 77.00 (76.70 to 77.70): VU035365.D (-2946) (-)

10.85

40000

30000

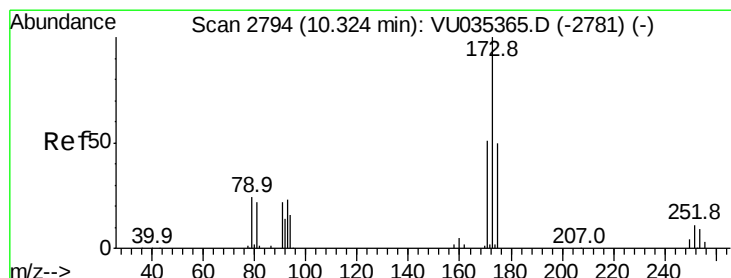
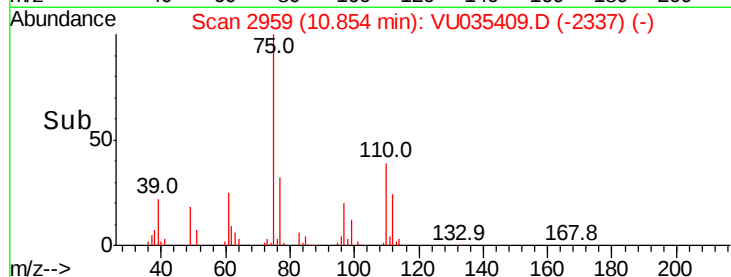
20000

10000

0

10.80 10.90

Time-->



#61

Bromoform

Concen: 4.669 ug/L

RT: 10.32 min Scan# 2793

Delta R.T. -0.00 min

Lab File: VU035409.D

Acq: 23 Oct 2019 14:54

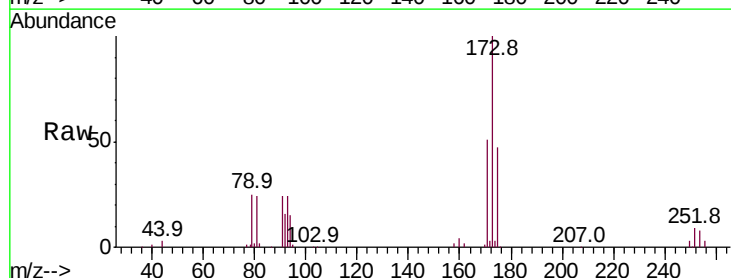
Tgt Ion: 173 Resp: 49708

Ion Ratio Lower Upper

173 100

175 47.9 38.8 58.2

254 8.6 7.5 11.3



Abundance Ion 172.90 (172.60 to 173.60): VU035365.D (-2781) (-)

Ion 174.90 (174.60 to 175.60): VU035365.D (-2781) (-)

Ion 253.75 (253.45 to 254.45): VU035365.D (-2781) (-)

10.32

30000

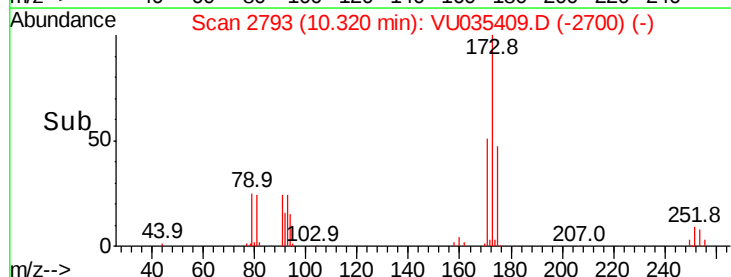
20000

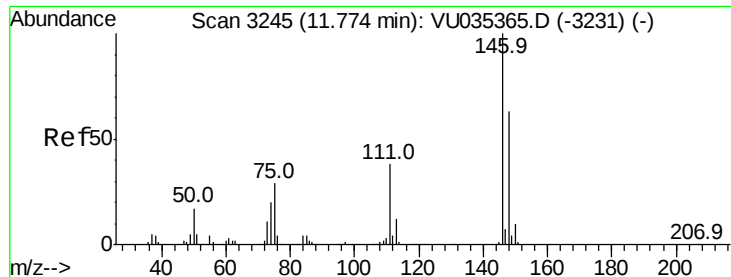
10000

0

10.30 10.40

Time-->





#62

1,3-Dichlorobenzene

Concen: 4.978 ug/L

RT: 11.77 min Scan# 3245

Delta R.T. -0.00 min

Lab File: VU035409.D

Acq: 23 Oct 2019 14:54

Instrument :

MSVOA_U

ClientSampled :

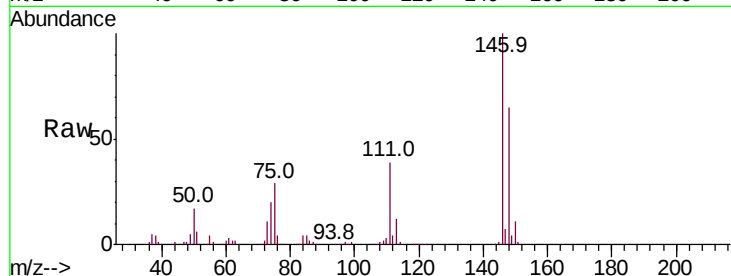
Tot Ion:146 Resp: 195243

Ion Ratio Lower Upper

146 100

111 38.9 27.8 51.6

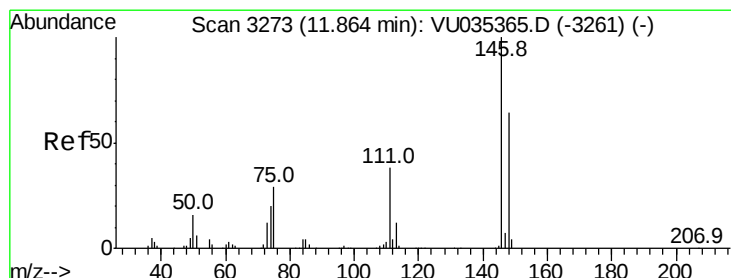
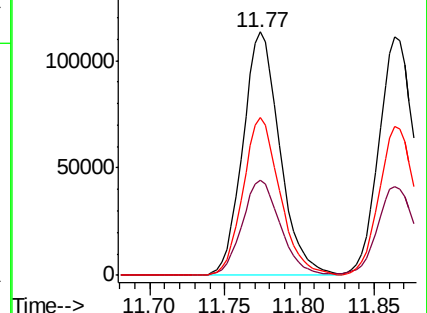
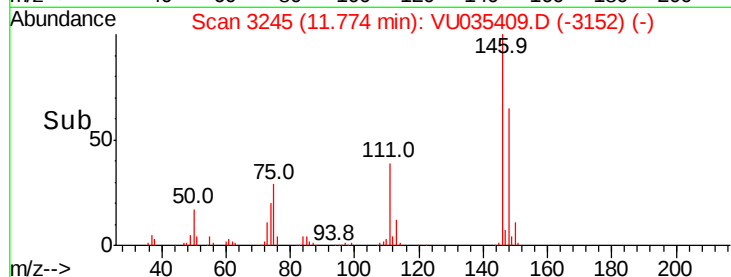
148 64.8 45.6 84.8



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 4.983 ug/L

RT: 11.86 min Scan# 3273

Delta R.T. -0.00 min

Lab File: VU035409.D

Acq: 23 Oct 2019 14:54

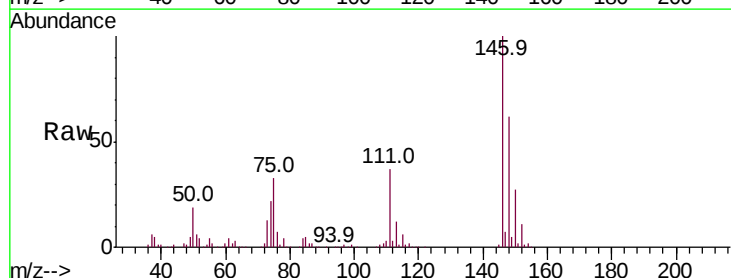
Tgt Ion:146 Resp: 192162

Ion Ratio Lower Upper

146 100

111 37.1 26.4 49.0

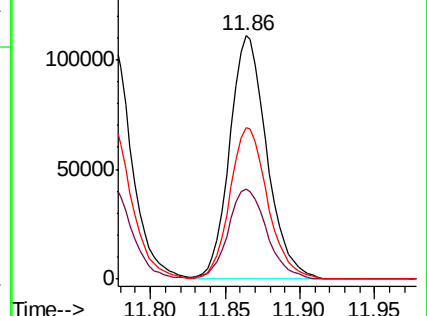
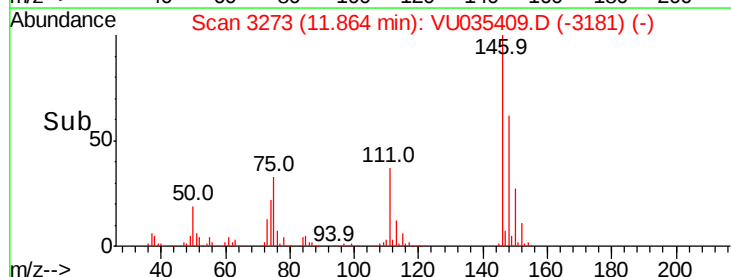
148 62.2 44.7 83.1

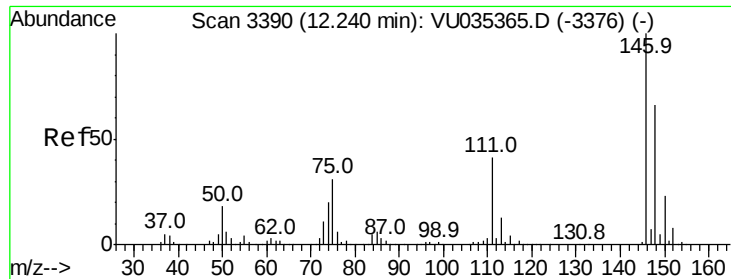


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 5.033 ug/L

RT: 12.24 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VU035409.D

Acq: 23 Oct 2019 14:54

Instrument :

MSVOA_U

ClientSampleId :

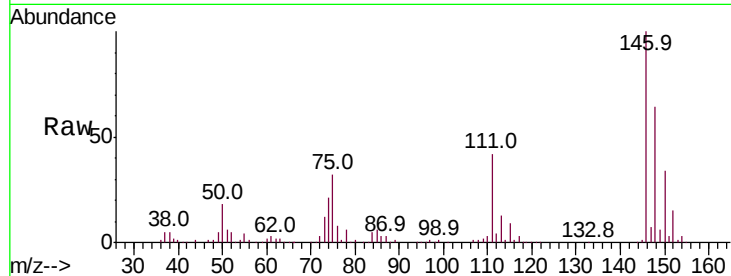
Tot Ion:146 Resp: 185475

Ion Ratio Lower Upper

146 100

111 42.2 33.0 49.6

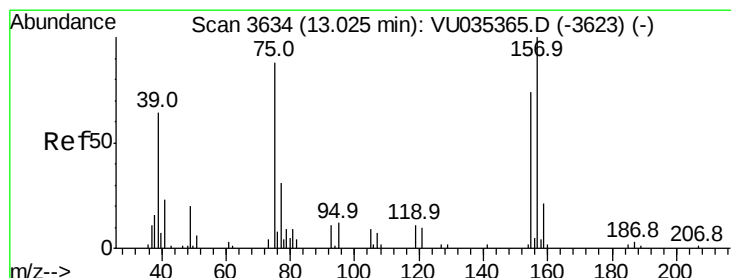
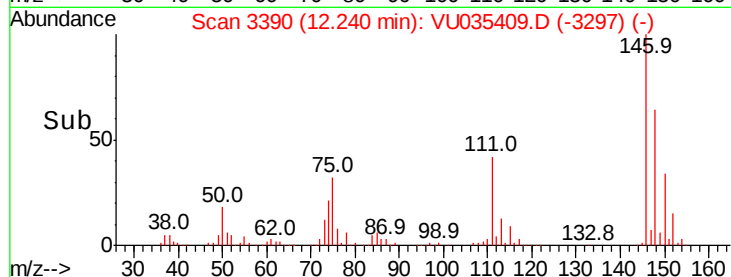
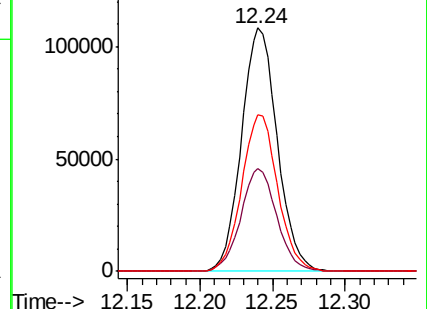
148 64.4 51.0 76.4



Abundance Ion 145.95 (145.65 to 146.65): 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: 4.570 ug/L

RT: 13.02 min Scan# 3634

Delta R.T. -0.00 min

Lab File: VU035409.D

Acq: 23 Oct 2019 14:54

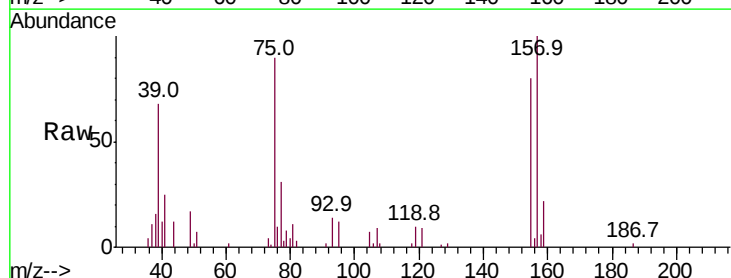
Tgt Ion: 75 Resp: 11895

Ion Ratio Lower Upper

75 100

155 88.7 70.0 105.0

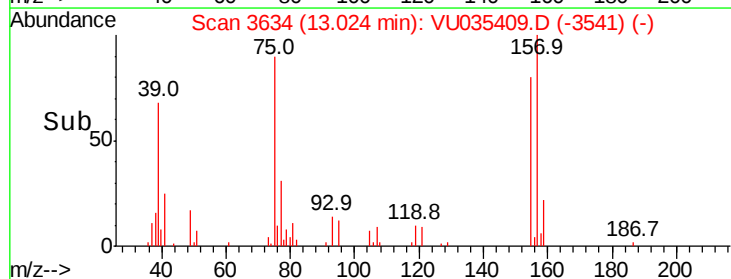
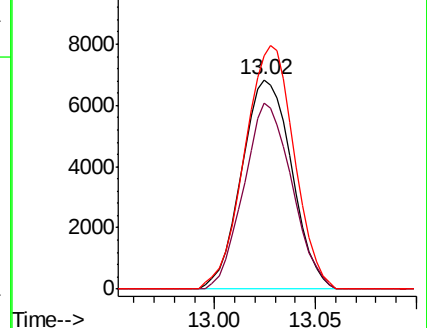
157 111.5 94.7 142.1

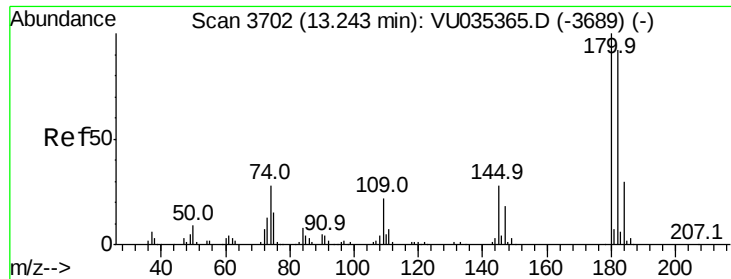


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

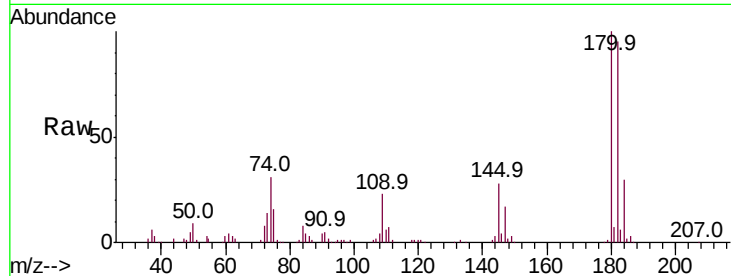




#67
 1,3,5-Trichlorobenzene
 Concen: 4.648 ug/L
 RT: 13.24 min Scan# 3702
 Delta R.T. -0.00 min
 Lab File: VU035409.D
 Acq: 23 Oct 2019 14:54

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.3	77.4	116.2
184	30.6	23.9	35.9
145	28.0	22.4	33.6



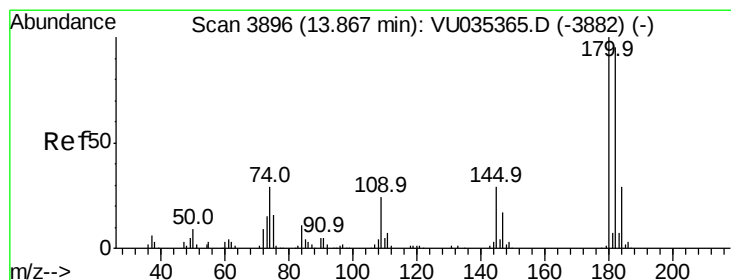
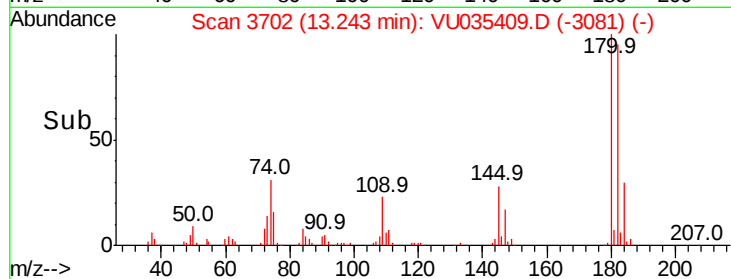
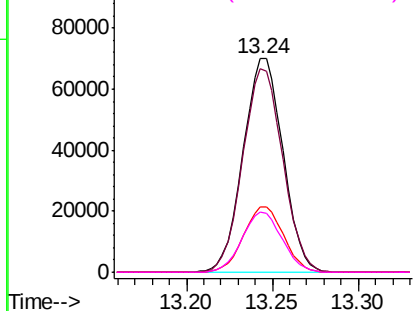
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

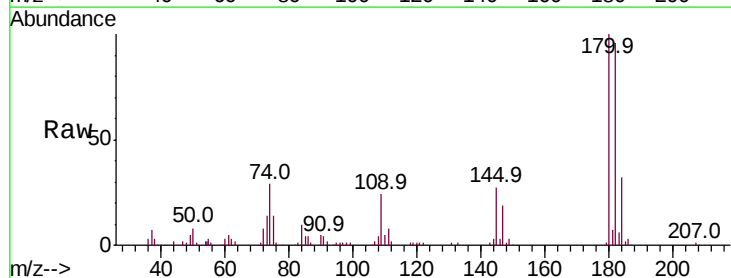
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 4.577 ug/L
 RT: 13.87 min Scan# 3896
 Delta R.T. -0.00 min
 Lab File: VU035409.D
 Acq: 23 Oct 2019 14:54

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.4	75.9	113.9
145	28.3	23.4	35.2

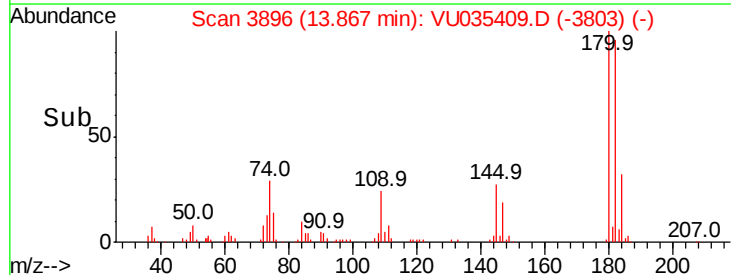
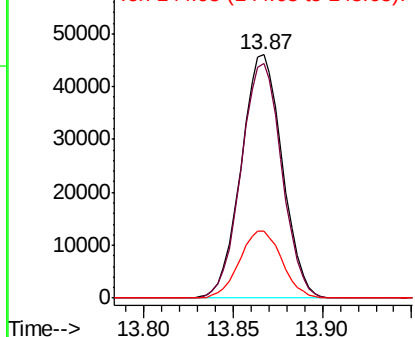


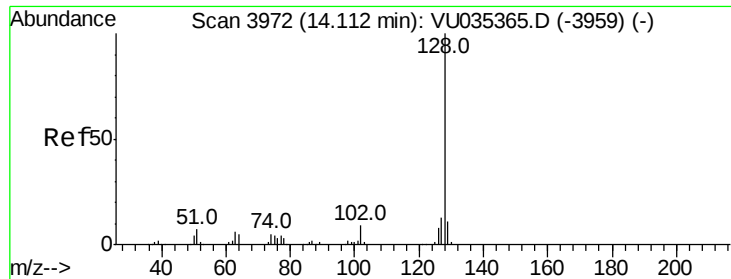
Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 4.613 ug/L

RT: 14.11 min Scan# 3973

Delta R.T. -0.00 min

Lab File: VU035409.D

Acq: 23 Oct 2019 14:54

Instrument :

MSVOA_U

ClientSampleId :

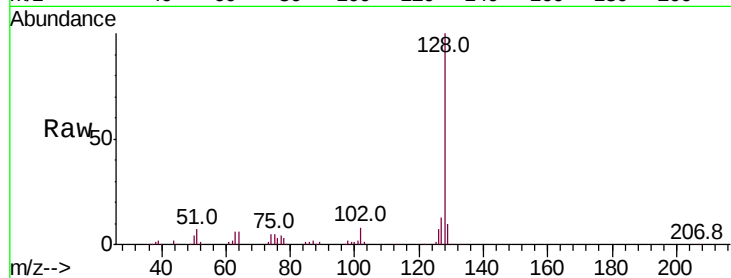
Tot Ion:128 Resp: 102454

Ion Ratio Lower Upper

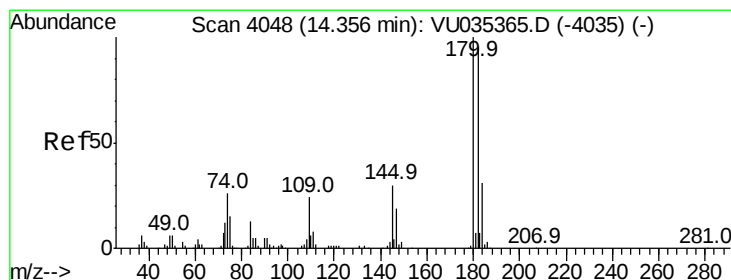
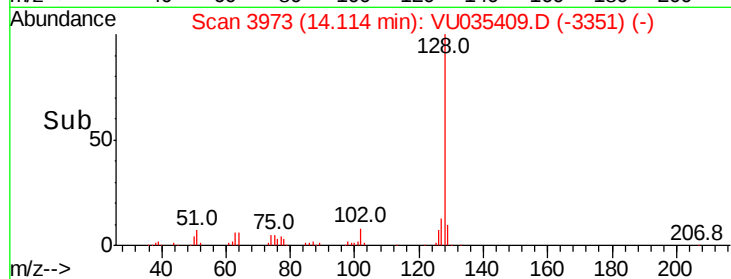
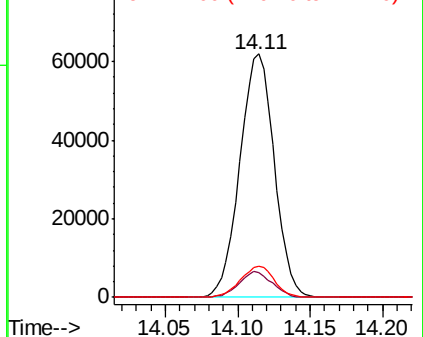
128 100

129 10.2 8.6 13.0

127 12.6 10.7 16.1



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 5.105 ug/L

RT: 14.36 min Scan# 4048

Delta R.T. -0.00 min

Lab File: VU035409.D

Acq: 23 Oct 2019 14:54

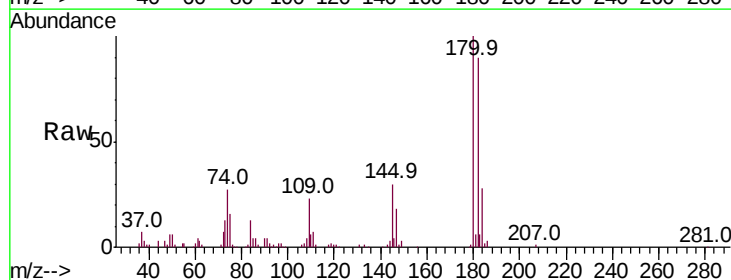
Tgt Ion:180 Resp: 77243

Ion Ratio Lower Upper

180 100

182 93.8 76.0 114.0

145 29.7 24.6 37.0



Abundance Ion 179.90 (179.60 to 180.60): V
Ion 181.90 (181.60 to 182.60): V
Ion 144.95 (144.65 to 145.65): V

