

Data File : VU032272.D
Acq On : 23 May 2019 16:29
Operator : JC/SP
Sample : VSTDCCC005
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00514

Quant Time: May 24 01:40:10 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri May 24 01:34:27 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	360055	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	368529	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	167026	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	81182	4.02	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	80.40%
7) Chloroethane-d5	1.68	69	85554	4.54	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	90.80%
11) 1,1-Dichloroethene-d2	2.27	63	163993	4.40	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	88.00%
20) 2-Butanone-d5	4.20	46	277692	48.69	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	97.38%
24) Chloroform-d	4.64	84	241139	4.67	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.40%
26) 1,2-Dichloroethane-d4	5.31	65	126894	4.64	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.80%
32) Benzene-d6	5.33	84	453202	4.33	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.60%
36) 1,2-Dichloropropane-d6	6.33	67	151515	4.46	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	89.20%
41) Toluene-d8	7.56	98	457002	4.50	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.00%
43) trans-1,3-Dichloropropene-	7.85	79	60063	4.60	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	92.00%
46) 2-Hexanone-d5	8.31	63	249999	50.88	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	101.76%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	162736	4.82	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	96.40%
64) 1,2-Dichlorobenzene-d4	11.85	152	210173	4.57	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	91.40%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	78916	5.127	ug/L 100
3) Chloromethane	1.32	50	69813	4.523	ug/L 99
5) Vinyl chloride	1.40	62	77293	4.960	ug/L 97
6) Bromomethane	1.62	94	47970	4.858	ug/L 91
8) Chloroethane	1.69	64	47086	4.760	ug/L 100
9) Trichlorofluoromethane	1.88	101	105908	5.242	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	67026	5.258	ug/L 97
12) 1,1-Dichloroethene	2.28	96	65169	5.086	ug/L 92
13) Acetone	2.33	43	86577	48.992	ug/L 97
14) Carbon disulfide	2.47	76	197012	4.962	ug/L 98
15) Methyl Acetate	2.62	43	24031	4.634	ug/L 89
16) Methylene chloride	2.69	84	71662	4.193	ug/L 99
17) Methyl tert-butyl Ether	3.00	73	152157	5.267	ug/L 99
18) trans-1,2-Dichloroethene	2.97	96	69130	5.027	ug/L 95
19) 1,1-Dichloroethane	3.44	63	113230	5.331	ug/L 93
21) 2-Butanone	4.28	43	131638	49.378	ug/L 94
22) cis-1,2-Dichloroethene	4.22	96	69638	5.187	ug/L 100

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Instrument :
MSVOA_U
ClientSampleId :
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Quant Title : TRACE VOA SOM01.0
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	32080	5.407	ug/L	97
25) Chloroform	4.67	83	118608	5.170	ug/L	91
27) 1,2-Dichloroethane	5.40	62	69072	5.173	ug/L	99
29) 1,1,1-Trichloroethane	4.91	97	97539	5.099	ug/L	100
30) Cyclohexane	4.99	56	82752	4.628	ug/L	96
31) Carbon tetrachloride	5.12	117	85219	5.057	ug/L	98
33) Benzene	5.38	78	253326	5.082	ug/L	100
34) Trichloroethene	6.18	95	64870	4.848	ug/L	93
35) Methylcyclohexane	6.41	83	89400	4.536	ug/L	100
37) 1,2-Dichloropropane	6.43	63	59231	4.935	ug/L	98
38) Bromodichloromethane	6.75	83	78014	5.001	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	79790	4.669	ug/L	100
40) 4-Methyl-2-pentanone	7.46	43	295994	48.787	ug/L	99
42) Toluene	7.63	91	277279	5.235	ug/L	93
44) trans-1,3-Dichloropropene	7.88	75	68826	5.125	ug/L	98
45) 1,1,2-Trichloroethane	8.07	97	45520	4.911	ug/L	94
47) Tetrachloroethene	8.22	164	57194	5.178	ug/L	97
48) 2-Hexanone	8.36	43	238322	51.214	ug/L	99
49) Dibromochloromethane	8.47	129	54683	5.183	ug/L	95
50) 1,2-Dibromoethane	8.58	107	46114	5.277	ug/L #	99
51) Chlorobenzene	9.12	112	176739	5.213	ug/L	97
52) Ethylbenzene	9.25	91	259784	4.872	ug/L	97
53) m,p-Xylene	9.37	106	102155	5.152	ug/L	90
54) o-Xylene	9.77	106	100328	5.064	ug/L	95
55) Styrene	9.79	104	167241	5.045	ug/L	99
56) Isopropylbenzene	10.16	105	251714	5.026	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	55500	4.971	ug/L	98
59) 1,2,3-Trichloropropane	10.49	75	40213	5.145	ug/L	98
61) Bromoform	9.95	173	30039	5.021	ug/L	94
62) 1,3-Dichlorobenzene	11.41	146	126782	5.137	ug/L	98
63) 1,4-Dichlorobenzene	11.50	146	126122	4.873	ug/L	97
65) 1,2-Dichlorobenzene	11.87	146	131169	5.240	ug/L	95
66) 1,2-Dibromo-3-chloropropan	12.66	75	7525	4.656	ug/L	95
67) 1,3,5-Trichlorobenzene	12.88	180	95622	5.092	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	65877	4.975	ug/L	97
69) Naphthalene	13.74	128	86193	4.255	ug/L	97
70) 1,2,3-Trichlorobenzene	13.99	180	64868	4.628	ug/L	94

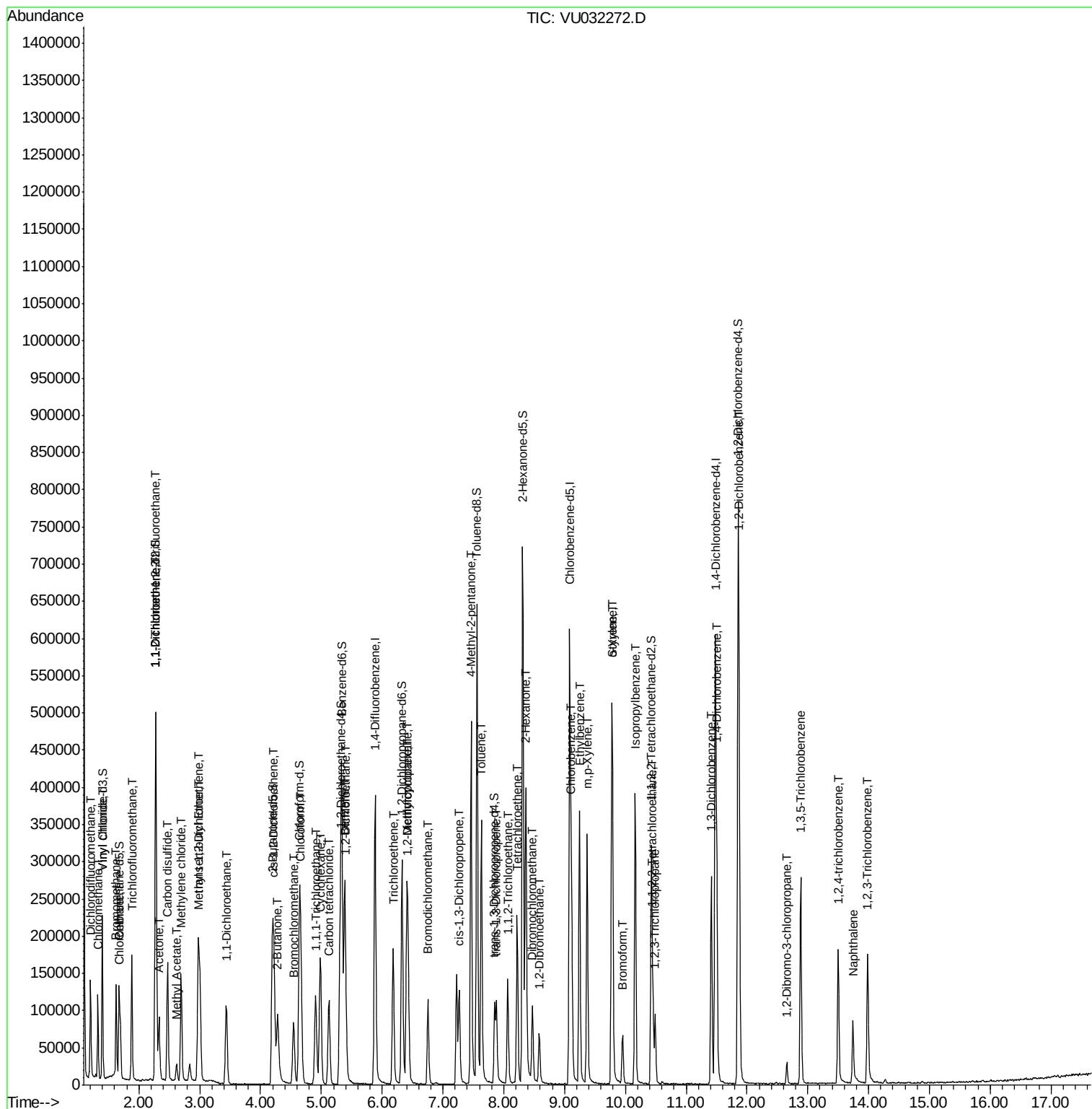
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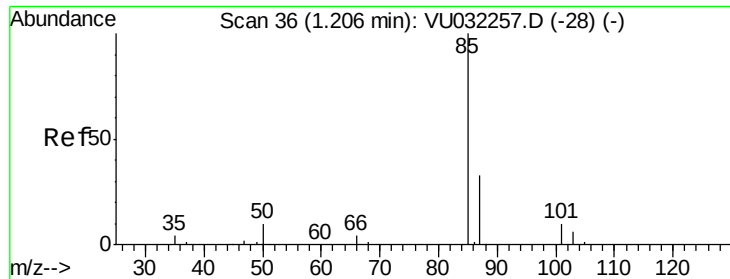
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Acq On      : 23 May 2019  16:29
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#2

Dichlorodifluoromethane

Concen: 5.127 ug/L

RT: 1.21 min Scan# 36

Delta R.T. -0.00 min

Lab File: VU032272.D

Acq: 23 May 2019 16:29

Instrument :

MSVOA_U

ClientSampleId :

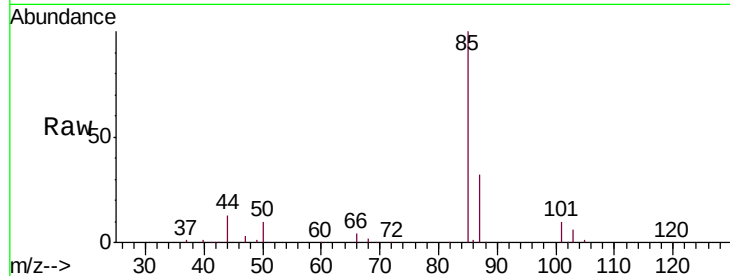
VSTD00514

Tgt Ion: 85 Resp: 78916

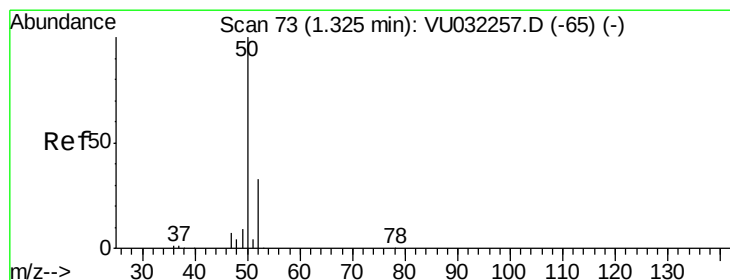
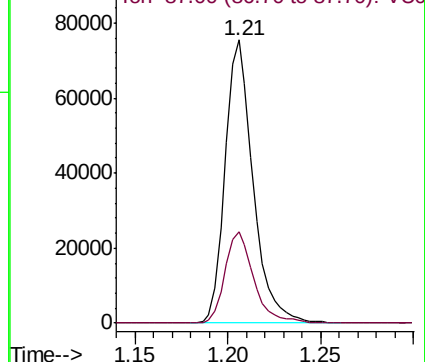
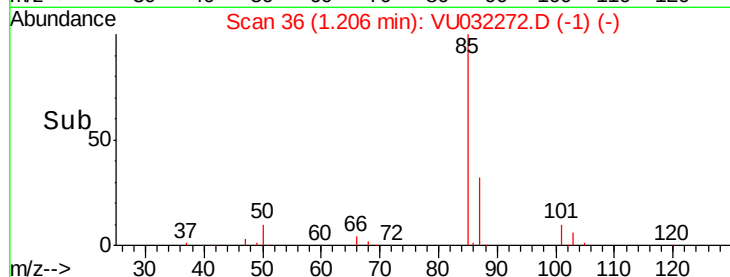
Ion Ratio Lower Upper

85 100

87 33.1 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VU032272.D (-1) (-)



#3

Chloromethane

Concen: 4.523 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VU032272.D

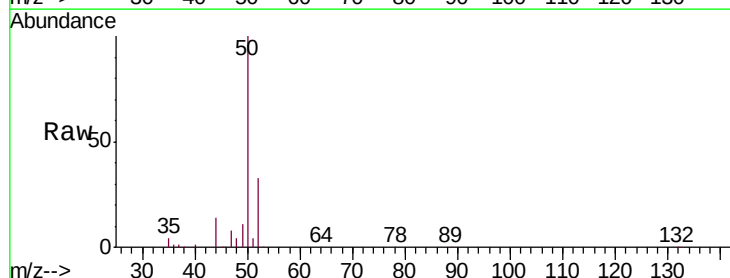
Acq: 23 May 2019 16:29

Tgt Ion: 50 Resp: 69813

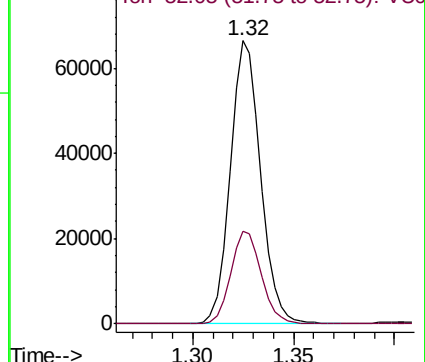
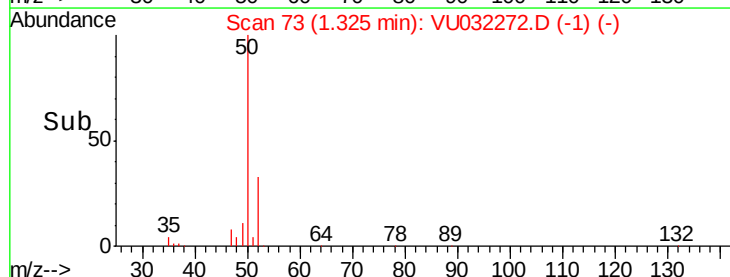
Ion Ratio Lower Upper

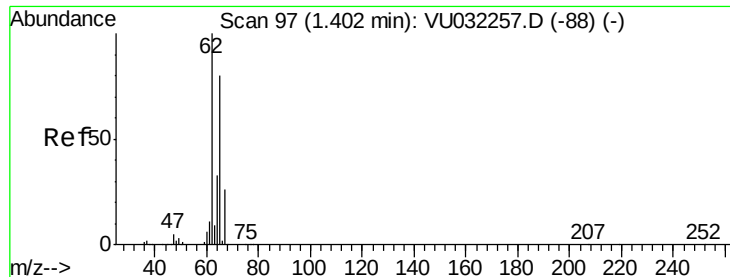
50 100

52 32.7 23.3 43.3



Abundance Ion 50.05 (49.75 to 50.75): VU032272.D (-1) (-)





#5

Vinyl chloride

Concen: 4.960 ug/L

RT: 1.40 min Scan# 97

Delta R.T. -0.00 min

Lab File: VU032272.D

Acq: 23 May 2019 16:29

Instrument :

MSVOA_U

ClientSampleId :

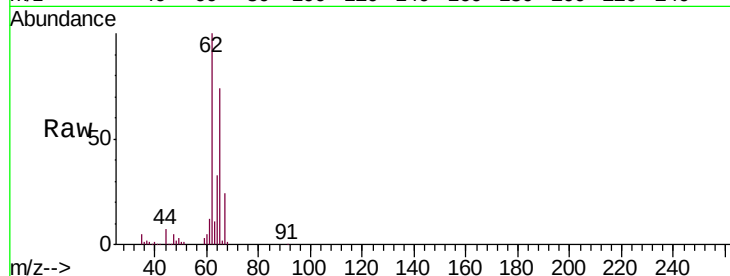
VSTD00514

Tgt Ion: 62 Resp: 77293

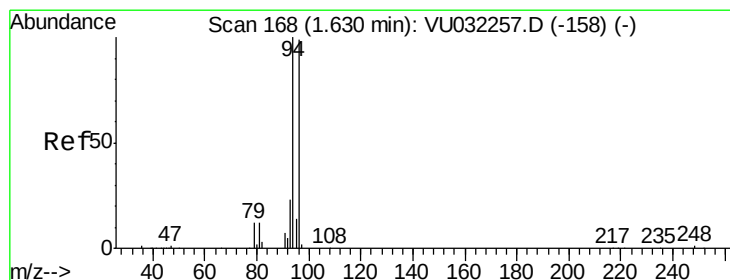
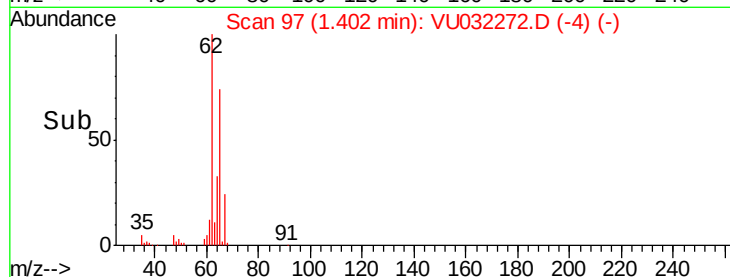
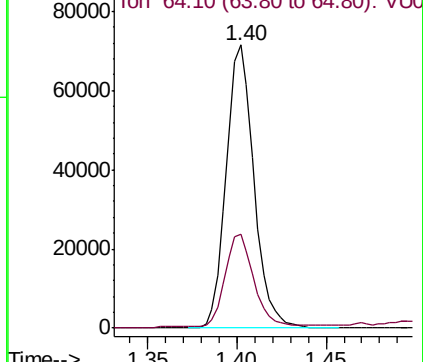
Ion Ratio Lower Upper

62 100

64 33.2 24.4 45.2



Abundance Ion 62.00 (61.70 to 62.70): VU032272.D (-4) (-)



#6

Bromomethane

Concen: 4.858 ug/L

RT: 1.62 min Scan# 166

Delta R.T. -0.01 min

Lab File: VU032272.D

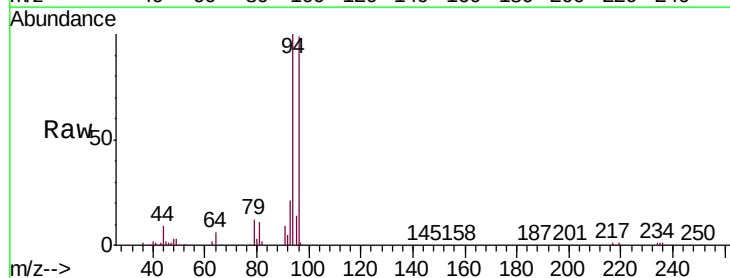
Acq: 23 May 2019 16:29

Tgt Ion: 94 Resp: 47970

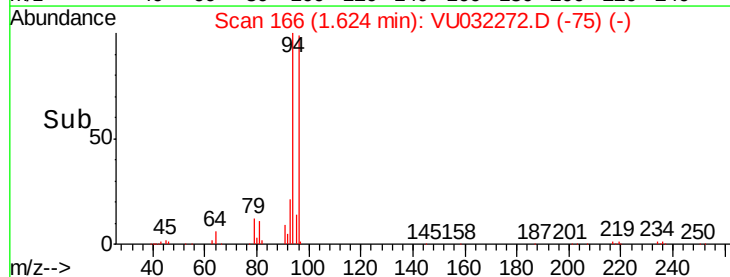
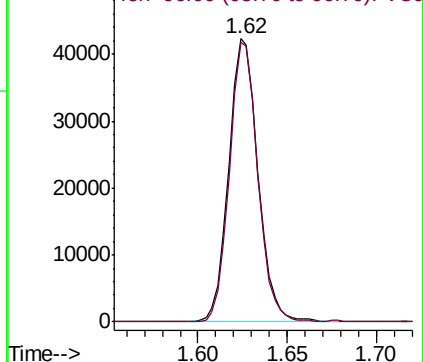
Ion Ratio Lower Upper

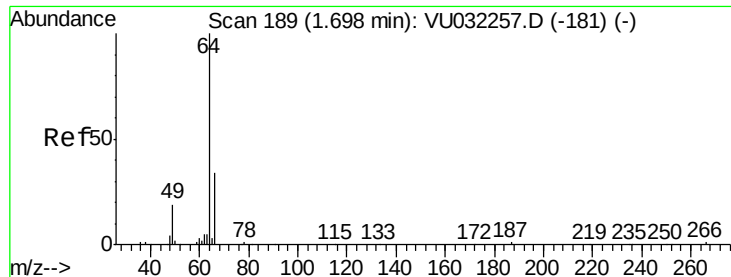
94 100

96 98.8 63.0 117.0



Abundance Ion 94.00 (93.70 to 94.70): VU032272.D (-75) (-)





#8

Chloroethane

Concen: 4.760 ug/L

RT: 1.69 min Scan# 188

Delta R.T. -0.00 min

Lab File: VU032272.D

Acq: 23 May 2019 16:29

Instrument :

MSVOA_U

ClientSampleId :

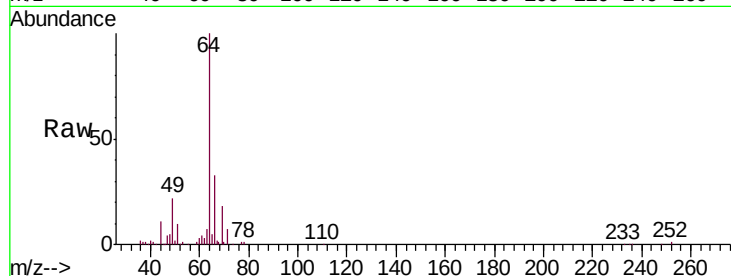
VSTD00514

Tgt Ion: 64 Resp: 47086

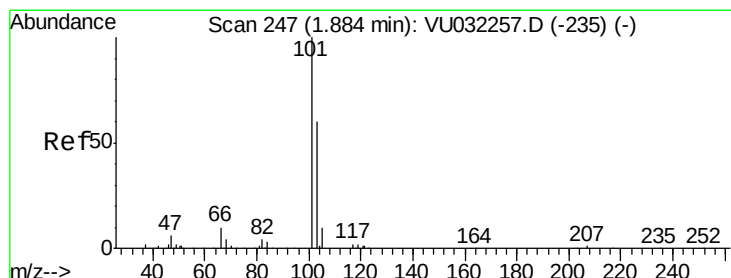
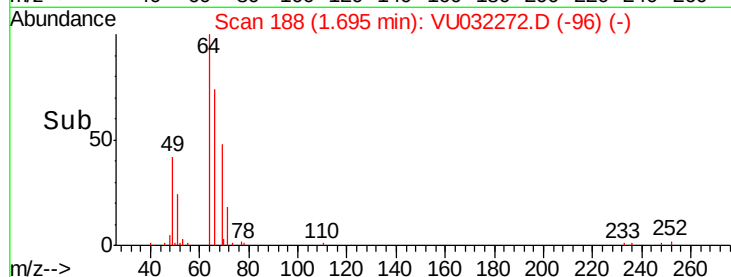
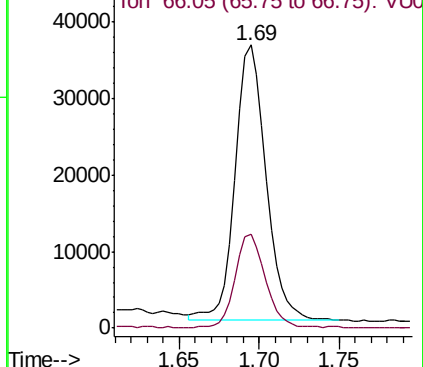
Ion Ratio Lower Upper

64 100

66 33.1 23.1 42.9



Abundance Ion 64.10 (63.80 to 64.80): VU032272.D (-181) (-)



#9

Trichlorofluoromethane

Concen: 5.242 ug/L

RT: 1.88 min Scan# 247

Delta R.T. -0.00 min

Lab File: VU032272.D

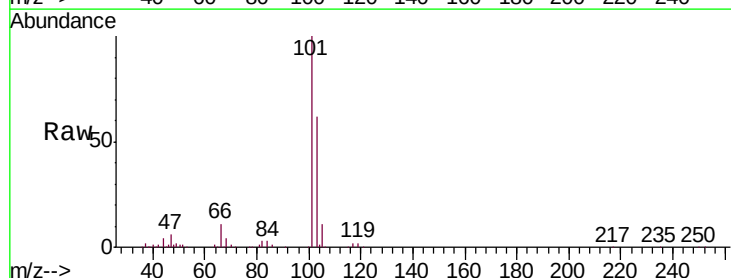
Acq: 23 May 2019 16:29

Tgt Ion: 101 Resp: 105908

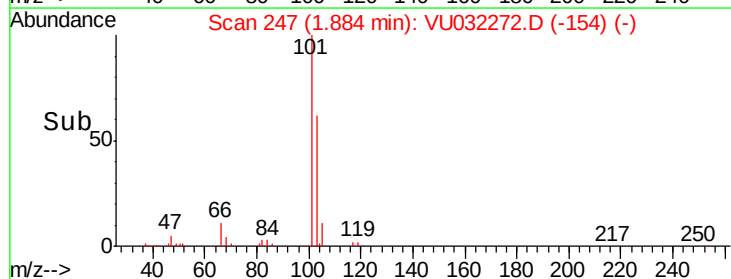
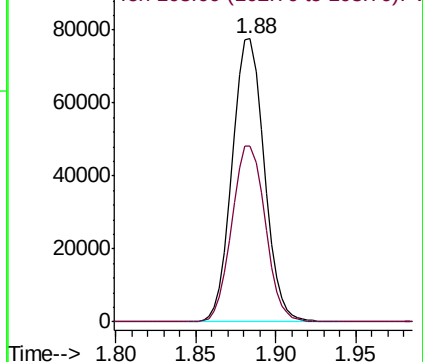
Ion Ratio Lower Upper

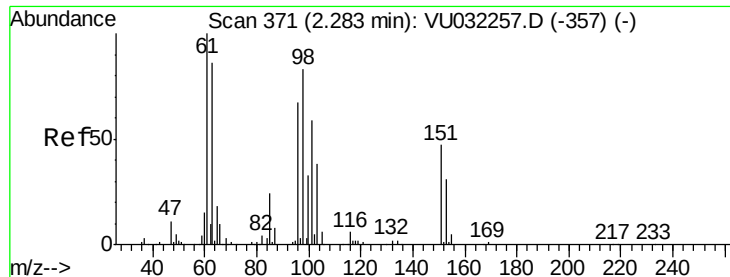
101 100

103 64.8 51.9 77.9



Abundance Ion 101.00 (100.70 to 101.70): VU032272.D (-154) (-)





#10

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

Concen: 5.258 ug/L

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU032272.D

Acq: 23 May 2019 16:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD00514

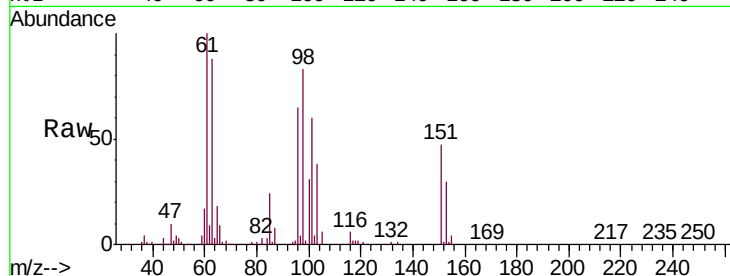
Tgt Ion:101 Resp: 67026

Ion Ratio Lower Upper

101 100

85 39.0 34.2 51.4

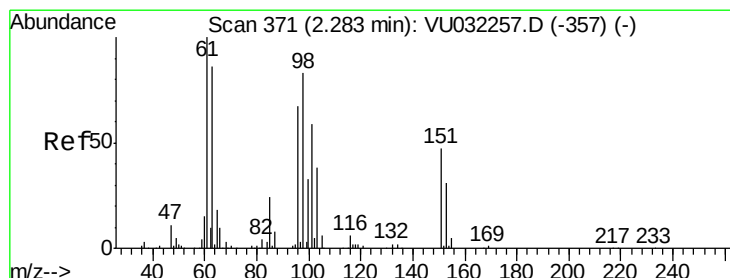
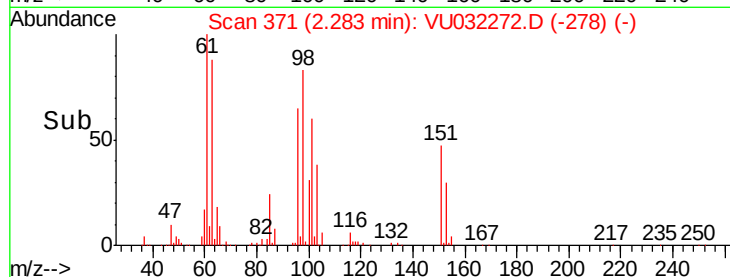
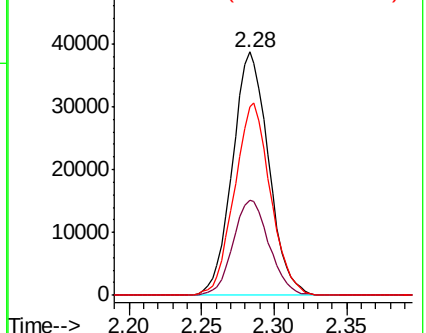
151 78.8 64.4 96.6



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: 5.086 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU032272.D

Acq: 23 May 2019 16:29

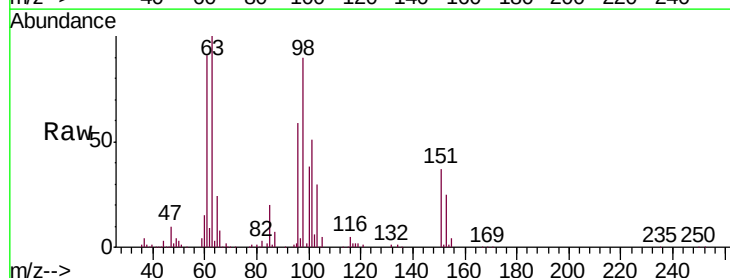
Tgt Ion: 96 Resp: 65169

Ion Ratio Lower Upper

96 100

61 155.7 113.8 211.3

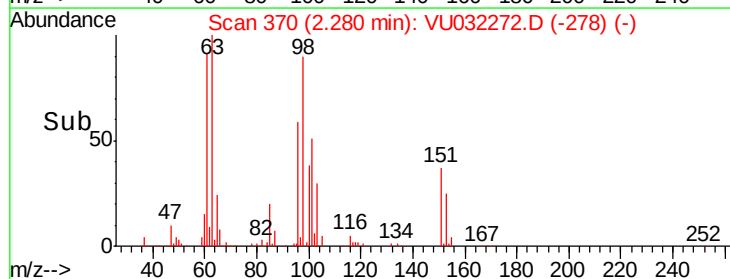
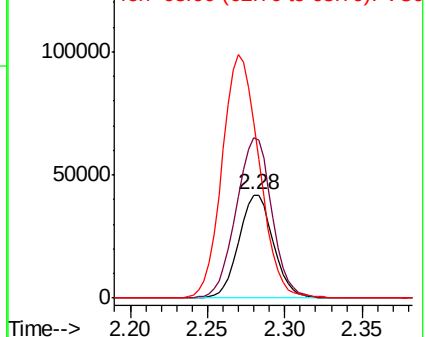
63 170.2 108.8 202.2

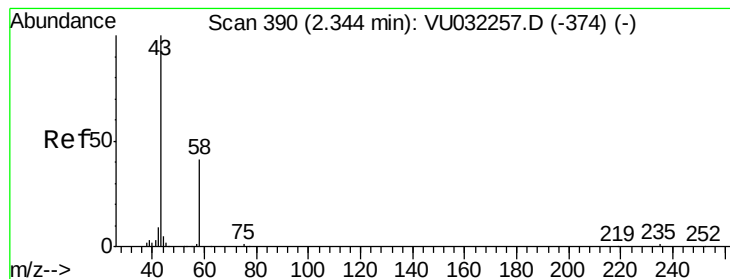


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 48.992 ug/L

RT: 2.33 min Scan# 386

Delta R.T. -0.01 min

Lab File: VU032272.D

Acq: 23 May 2019 16:29

Instrument :

MSVOA_U

ClientSampleId :

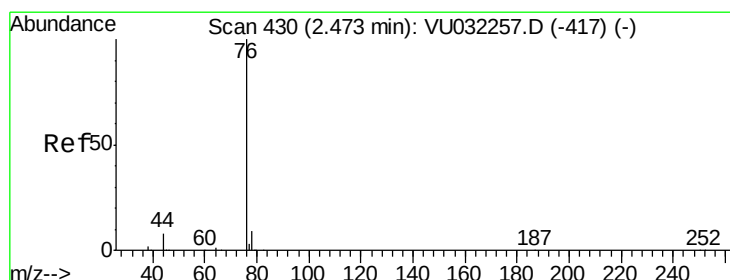
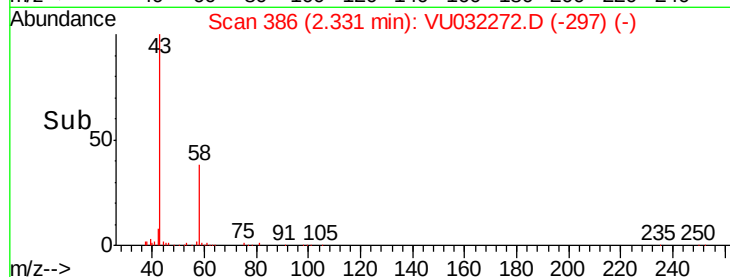
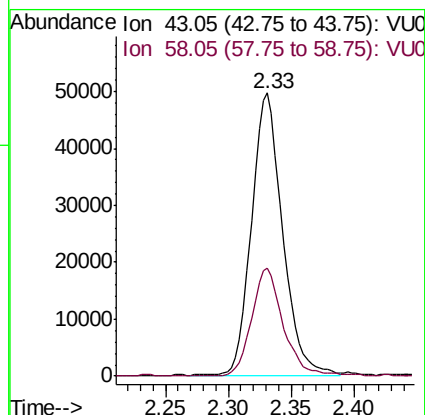
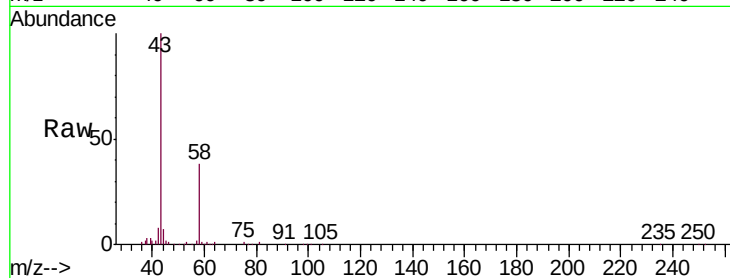
VSTD00514

Tgt Ion: 43 Resp: 86577

Ion Ratio Lower Upper

43 100

58 37.9 0.0 72.6



#14

Carbon disulfide

Concen: 4.962 ug/L

RT: 2.47 min Scan# 430

Delta R.T. -0.00 min

Lab File: VU032272.D

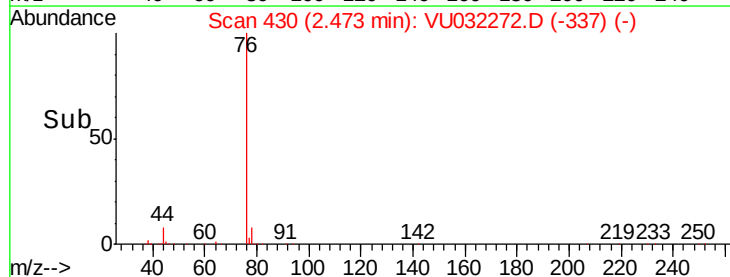
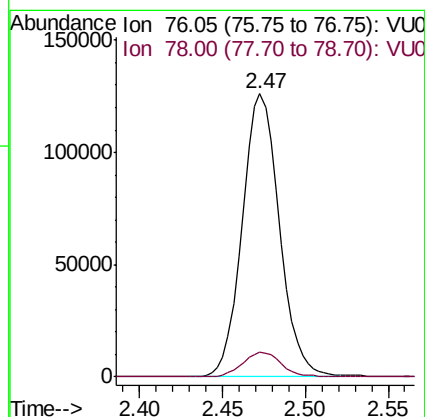
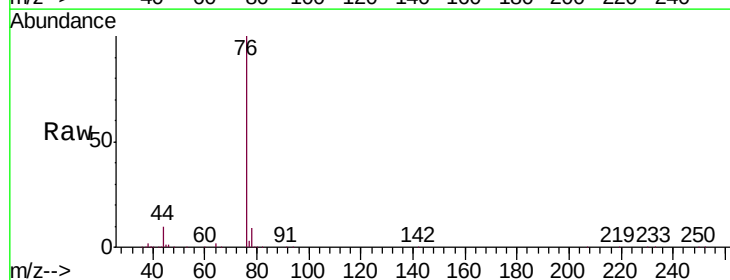
Acq: 23 May 2019 16:29

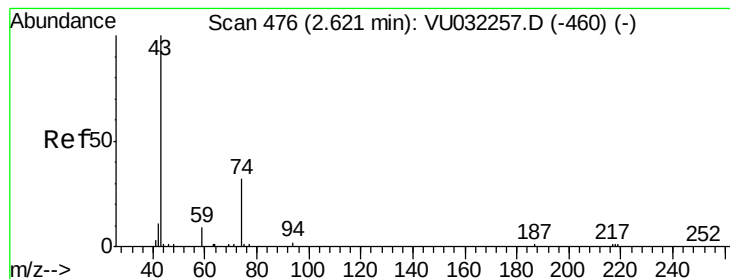
Tgt Ion: 76 Resp: 197012

Ion Ratio Lower Upper

76 100

78 8.6 7.5 11.3





#15

Methyl Acetate

Concen: 4.634 ug/L

RT: 2.62 min Scan# 476

Delta R.T. -0.00 min

Lab File: VU032272.D

Acq: 23 May 2019 16:29

Instrument :

MSVOA_U

ClientSampleId :

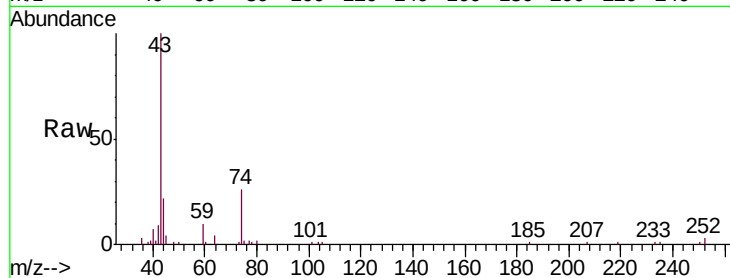
VSTD00514

Tgt Ion: 43 Resp: 24031

Ion Ratio Lower Upper

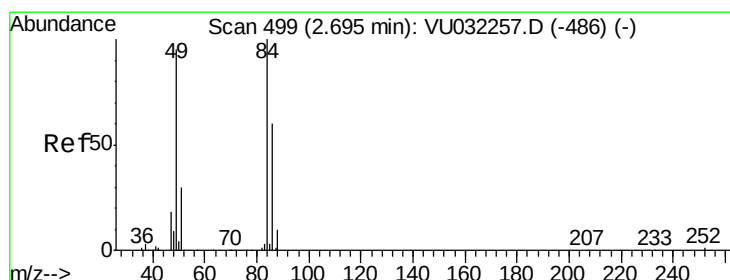
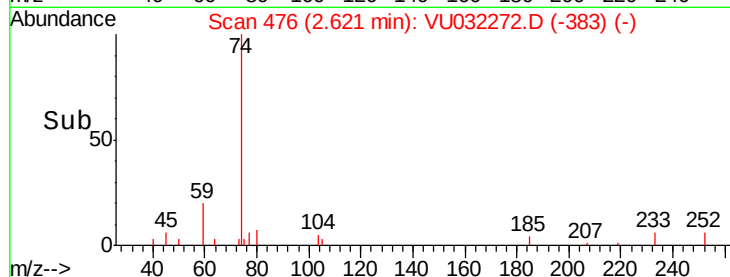
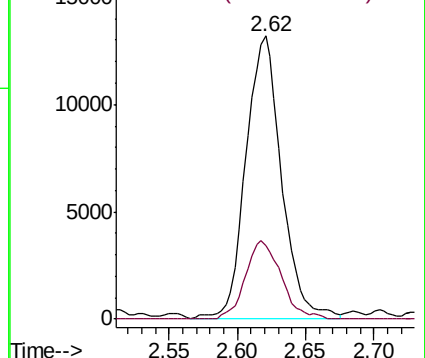
43 100

74 27.7 27.3 40.9



Abundance Ion 43.05 (42.75 to 43.75): VU032272.D (-383) (-)

Ion 74.05 (73.75 to 74.75): VU032272.D (-383) (-)



#16

Methylene chloride

Concen: 4.193 ug/L

RT: 2.69 min Scan# 499

Delta R.T. -0.00 min

Lab File: VU032272.D

Acq: 23 May 2019 16:29

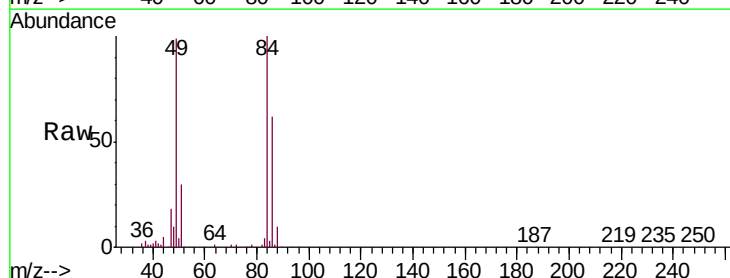
Tgt Ion: 84 Resp: 71662

Ion Ratio Lower Upper

84 100

86 62.2 43.6 81.0

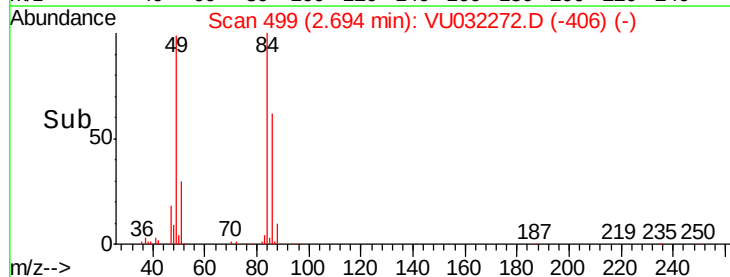
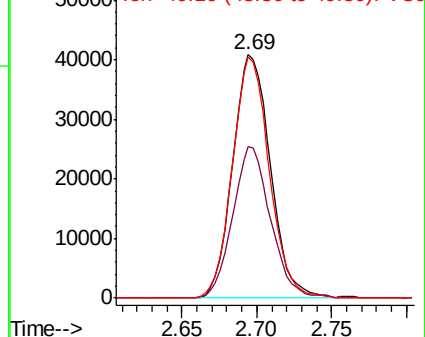
49 99.2 71.1 132.1

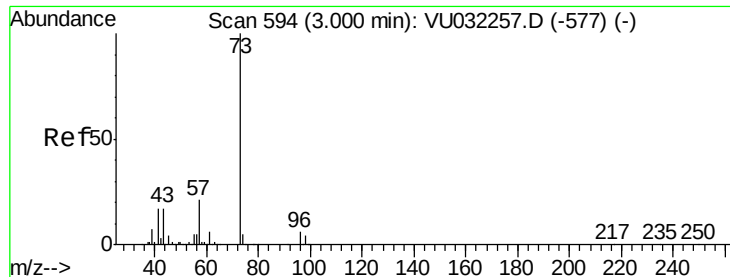


Abundance Ion 84.05 (83.75 to 84.75): VU032272.D (-406) (-)

Ion 86.00 (85.70 to 86.70): VU032272.D (-406) (-)

Ion 49.10 (48.80 to 49.80): VU032272.D (-406) (-)





#17

Methyl tert-butyl Ether

Concen: 5.267 ug/L

RT: 3.00 min Scan# 594

Delta R.T. -0.00 min

Lab File: VU032272.D

Acq: 23 May 2019 16:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD00514

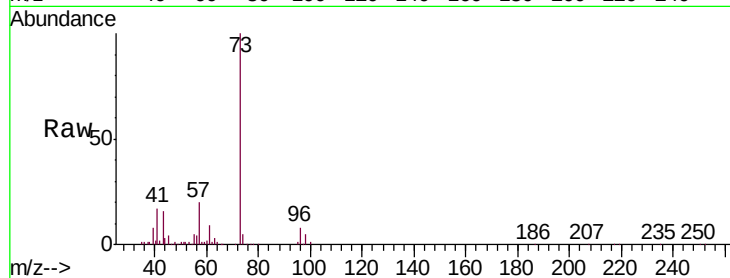
Tgt Ion: 73 Resp: 152157

Ion Ratio Lower Upper

73 100

43 17.7 13.8 20.6

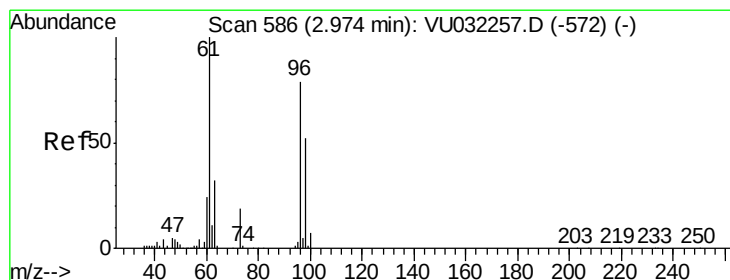
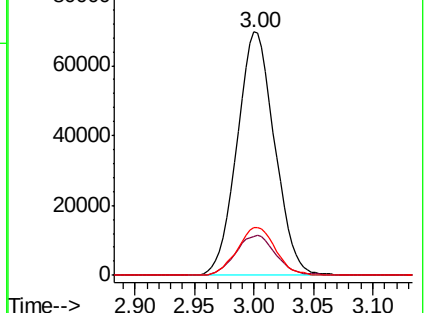
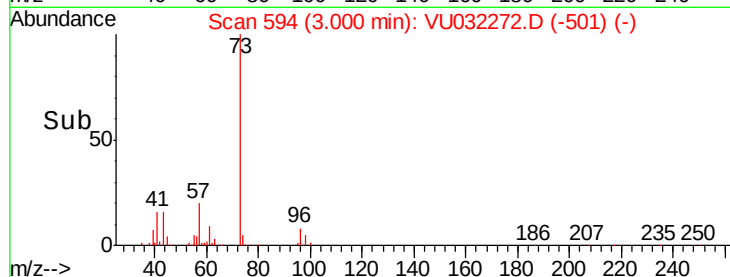
57 20.1 16.2 24.4



Abundance Ion 73.10 (72.80 to 73.80): VU032272.D (-501) (-)

Ion 43.05 (42.75 to 43.75): VU032272.D (-501) (-)

Ion 57.10 (56.80 to 57.80): VU032272.D (-501) (-)



#18

trans-1,2-Dichloroethene

Concen: 5.027 ug/L

RT: 2.97 min Scan# 586

Delta R.T. -0.00 min

Lab File: VU032272.D

Acq: 23 May 2019 16:29

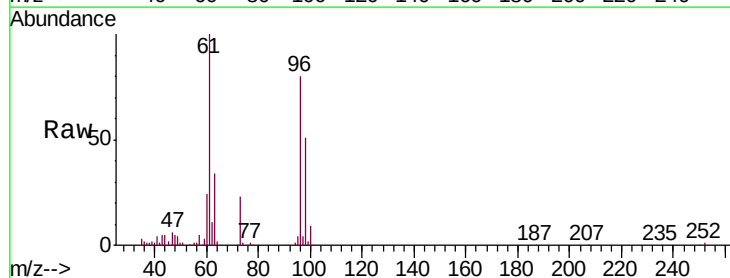
Tgt Ion: 96 Resp: 69130

Ion Ratio Lower Upper

96 100

61 124.8 90.6 168.3

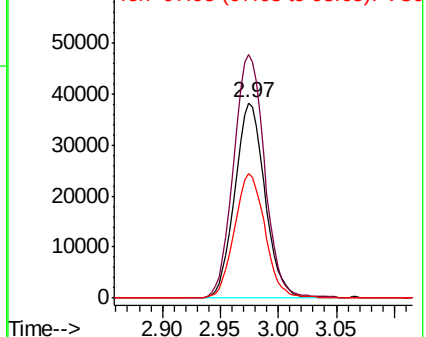
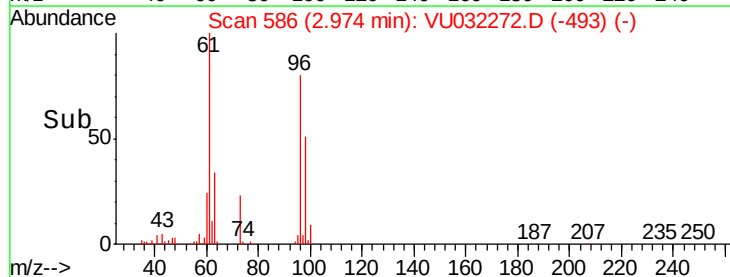
98 64.1 49.5 91.9

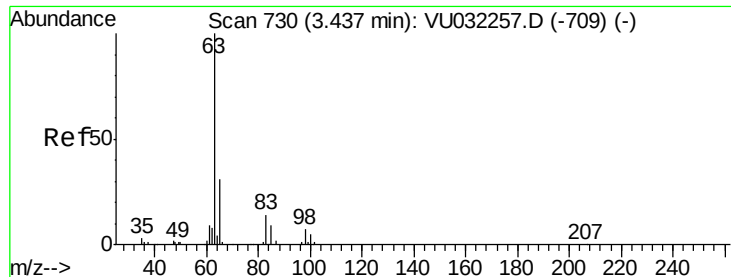


Abundance Ion 96.00 (95.70 to 96.70): VU032272.D (-493) (-)

Ion 61.05 (60.75 to 61.75): VU032272.D (-493) (-)

Ion 97.95 (97.65 to 98.65): VU032272.D (-493) (-)

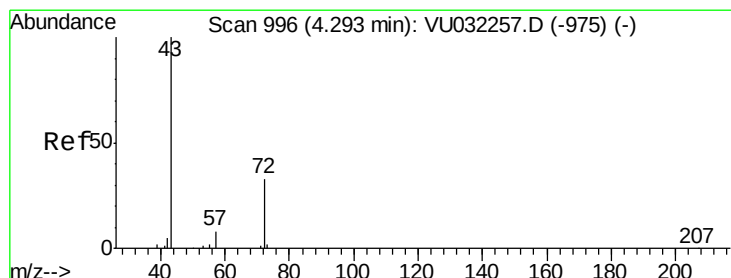
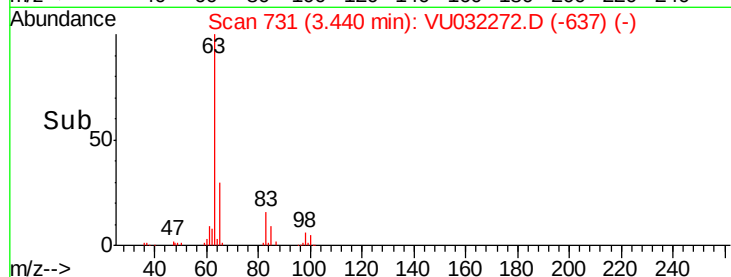
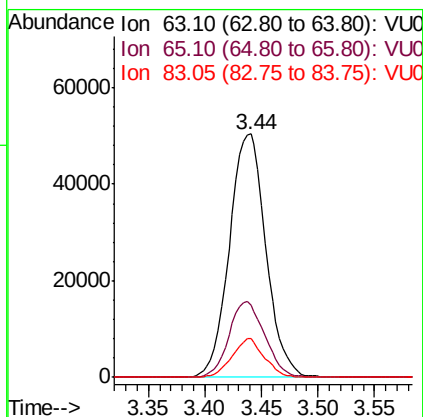
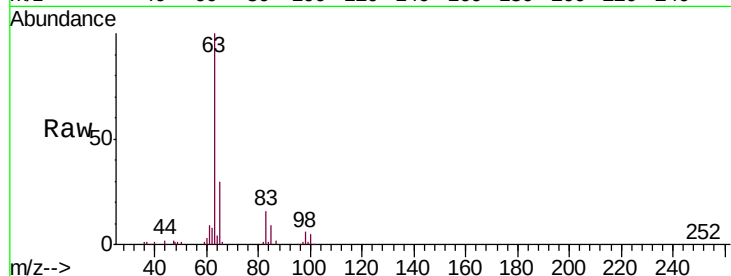




#19
 1,1-Dichloroethane
 Concen: 5.331 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. 0.00 min
 Lab File: VU032272.D
 Acq: 23 May 2019 16:29

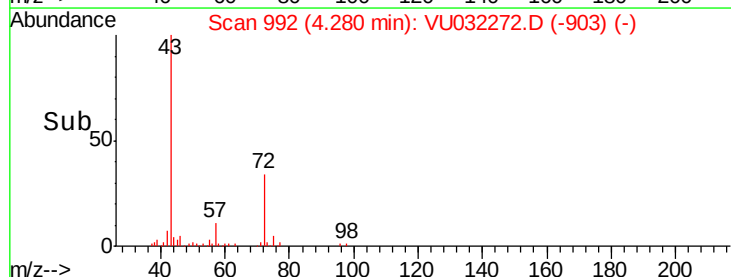
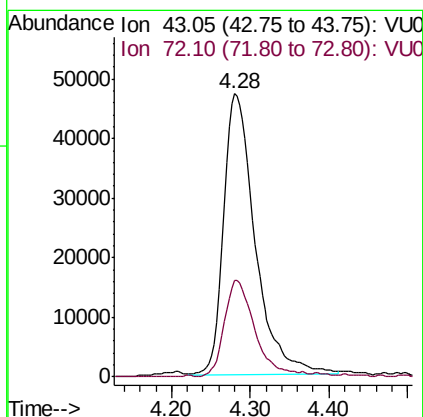
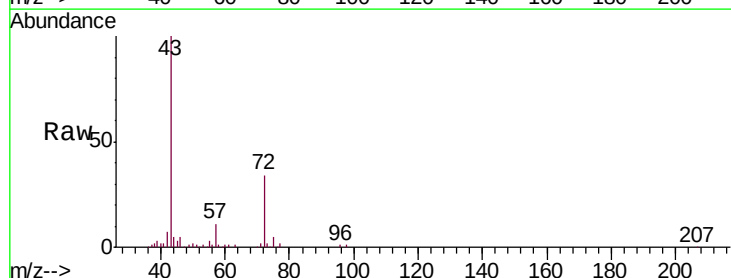
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00514

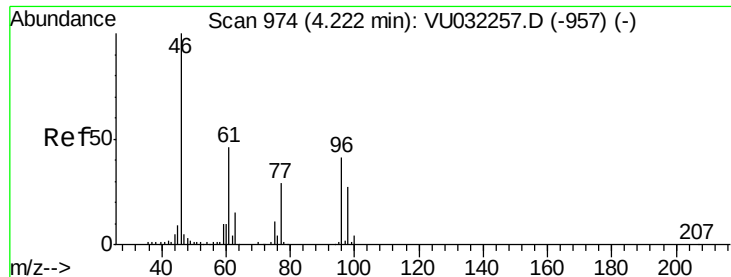
Tgt Ion: 63 Resp: 113230
 Ion Ratio Lower Upper
 63 100
 65 29.8 23.5 43.7
 83 15.8 8.8 16.3



#21
 2-Butanone
 Concen: 49.378 ug/L
 RT: 4.28 min Scan# 992
 Delta R.T. -0.01 min
 Lab File: VU032272.D
 Acq: 23 May 2019 16:29

Tgt Ion: 43 Resp: 131638
 Ion Ratio Lower Upper
 43 100
 72 33.6 15.2 45.6



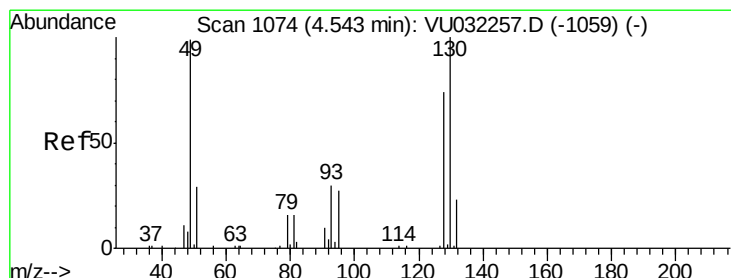
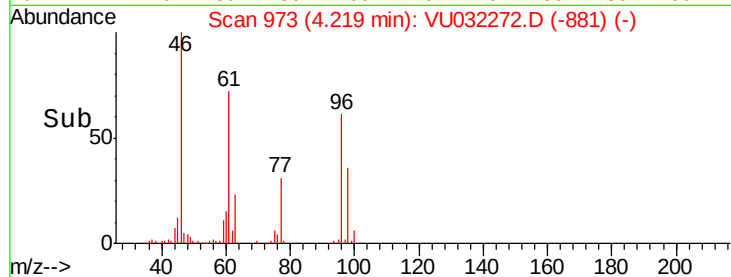
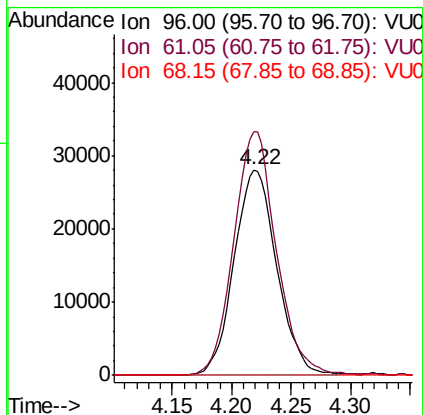
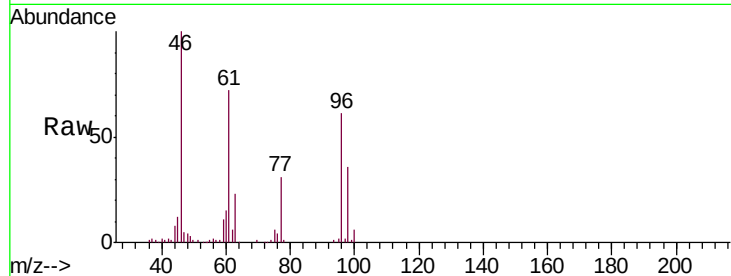


#22

cis-1,2-Dichloroethene
Concen: 5.187 ug/L
RT: 4.22 min Scan# 973
Delta R.T. -0.00 min
Lab File: VU032272.D
Acq: 23 May 2019 16:29

Instrument :
MSVOA_U
ClientSampleId :
VSTD00514

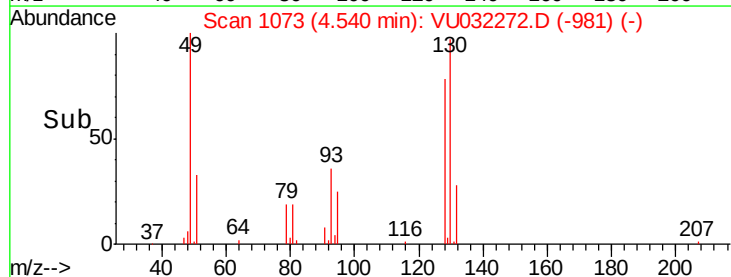
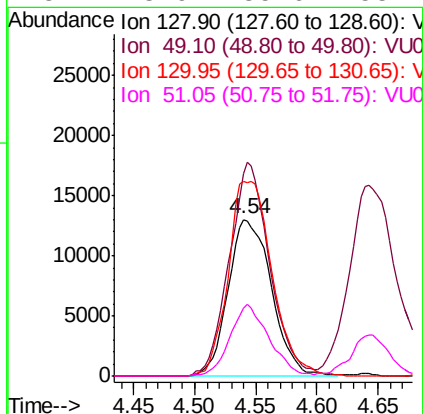
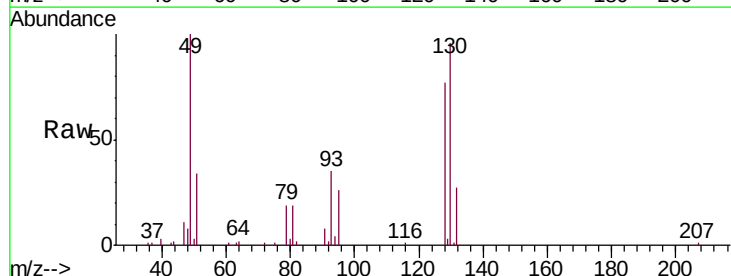
Tgt Ion: 96 Resp: 69638
Ion Ratio Lower Upper
96 100
61 118.3 82.5 153.1
68 0.0 0.0 0.0

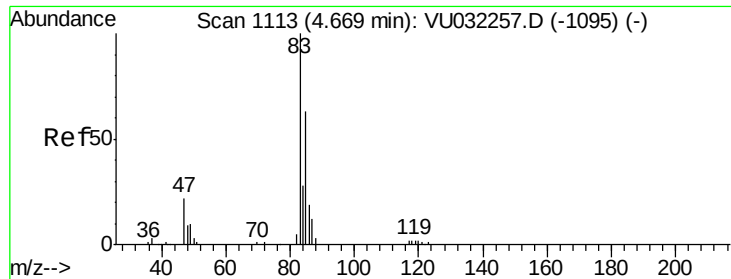


#23

Bromochloromethane
Concen: 5.407 ug/L
RT: 4.54 min Scan# 1073
Delta R.T. -0.00 min
Lab File: VU032272.D
Acq: 23 May 2019 16:29

Tgt Ion: 128 Resp: 32080
Ion Ratio Lower Upper
128 100
49 129.6 93.9 174.3
130 124.4 85.3 158.3
51 43.9 35.6 53.4

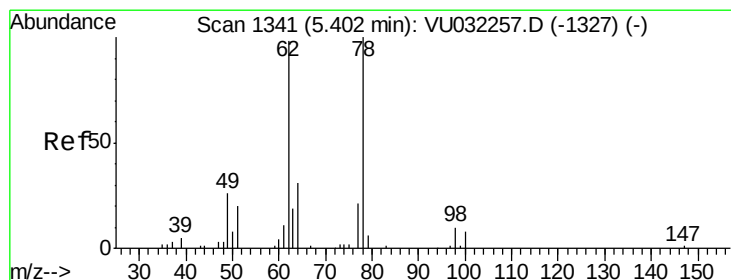
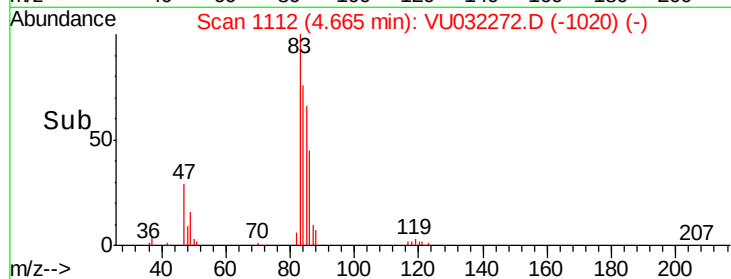
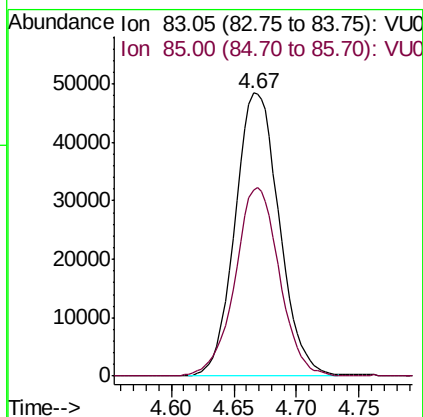
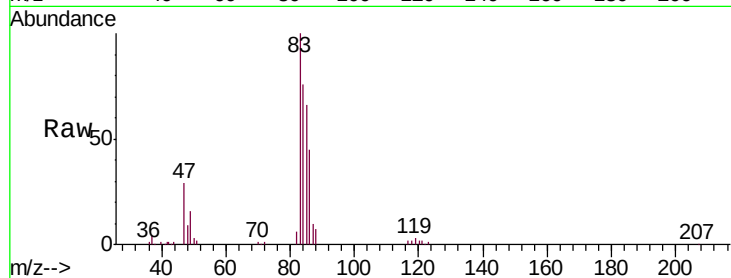




#25
Chloroform
Concen: 5.170 ug/L
RT: 4.67 min Scan# 1112
Delta R.T. -0.00 min
Lab File: VU032272.D
Acq: 23 May 2019 16:29

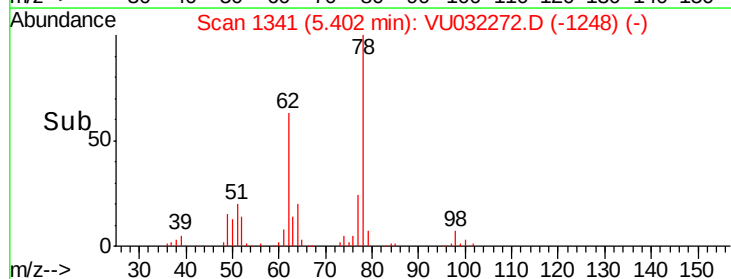
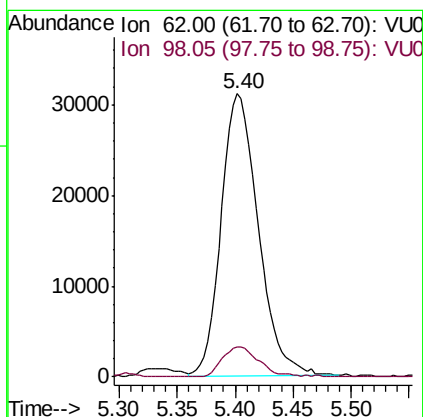
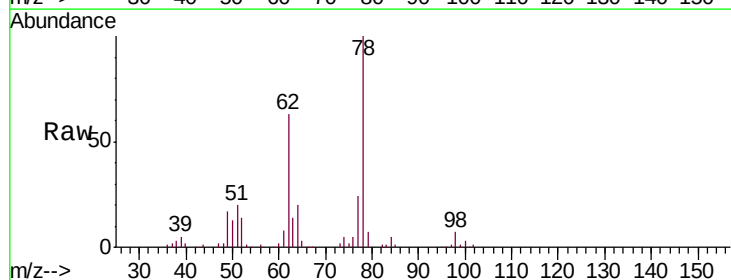
Instrument :
MSVOA_U
ClientSampleId :
VSTD00514

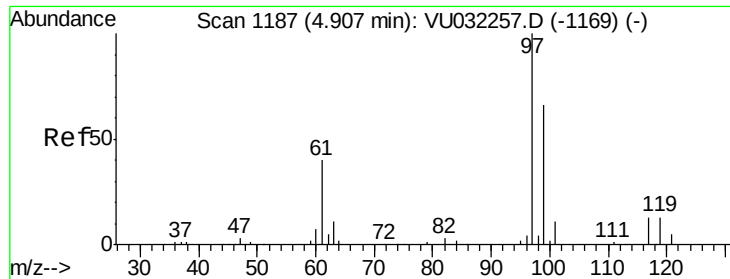
Tgt Ion: 83 Resp: 118608
Ion Ratio Lower Upper
83 100
85 65.9 41.6 77.3



#27
1,2-Dichloroethane
Concen: 5.173 ug/L
RT: 5.40 min Scan# 1341
Delta R.T. -0.00 min
Lab File: VU032272.D
Acq: 23 May 2019 16:29

Tgt Ion: 62 Resp: 69072
Ion Ratio Lower Upper
62 100
98 10.7 8.2 12.2

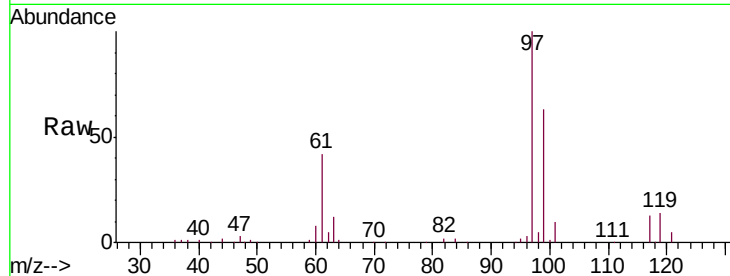




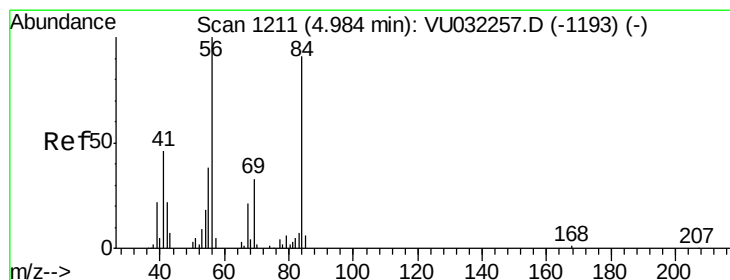
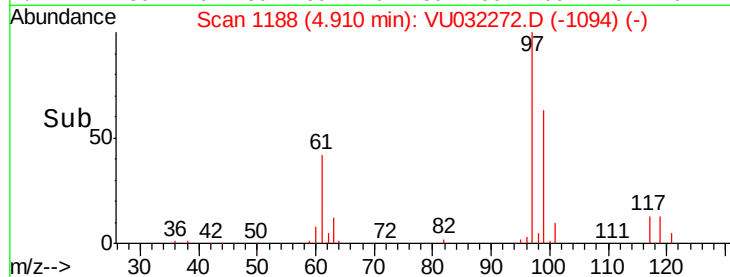
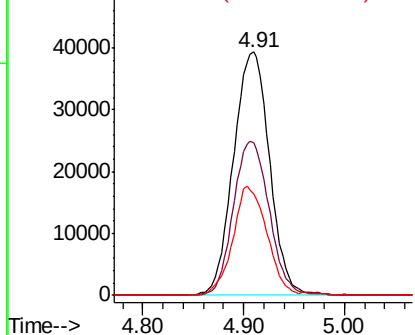
#29
 1,1,1-Trichloroethane
 Concen: 5.099 ug/L
 RT: 4.91 min Scan# 1188
 Delta R.T. 0.00 min
 Lab File: VU032272.D
 Acq: 23 May 2019 16:29

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00514

Tgt Ion: 97 Resp: 97539
 Ion Ratio Lower Upper
 97 100
 99 62.9 50.3 75.5
 61 42.3 34.1 51.1

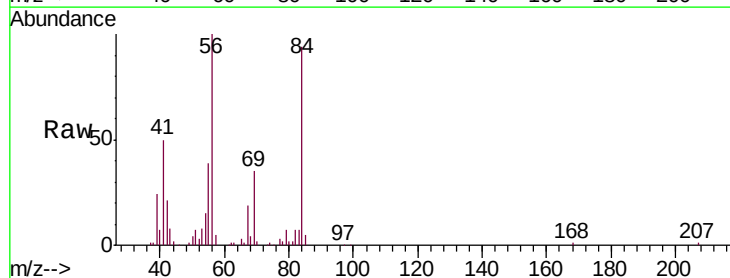


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

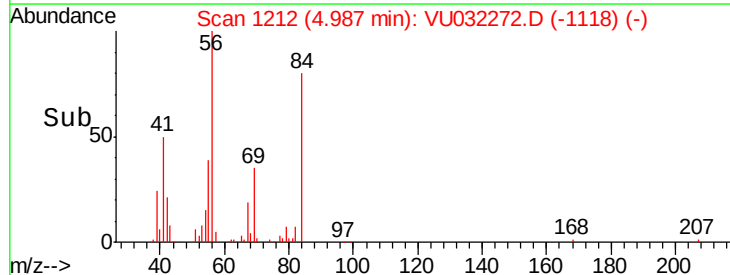
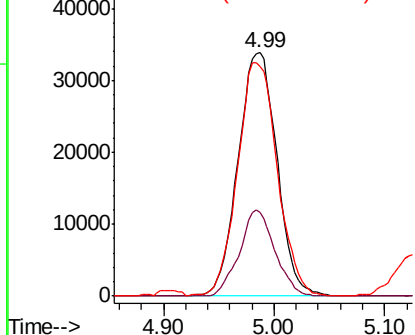


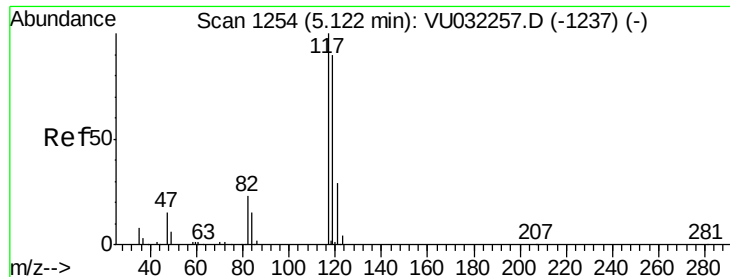
#30
 Cyclohexane
 Concen: 4.628 ug/L
 RT: 4.99 min Scan# 1212
 Delta R.T. 0.00 min
 Lab File: VU032272.D
 Acq: 23 May 2019 16:29

Tgt Ion: 56 Resp: 82752
 Ion Ratio Lower Upper
 56 100
 69 32.1 26.6 39.8
 84 98.2 75.0 112.6



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: 5.057 ug/L

RT: 5.12 min Scan# 1254

Delta R.T. -0.00 min

Lab File: VU032272.D

Acq: 23 May 2019 16:29

Instrument :

MSVOA_U

ClientSampleId :

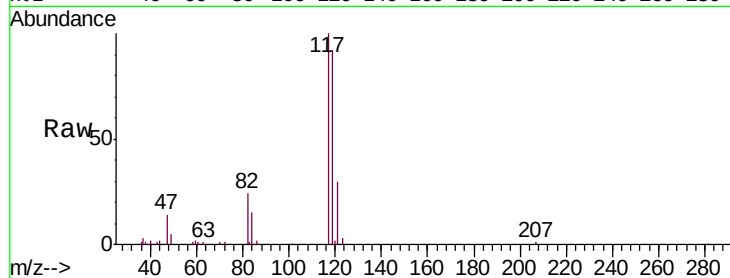
VSTD00514

Tgt Ion:117 Resp: 85219

Ion Ratio Lower Upper

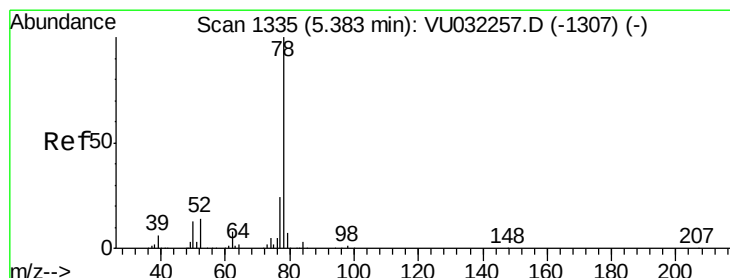
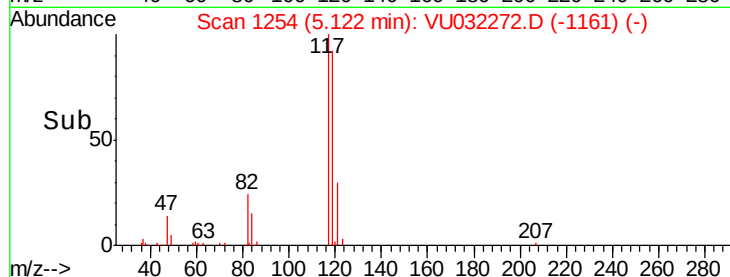
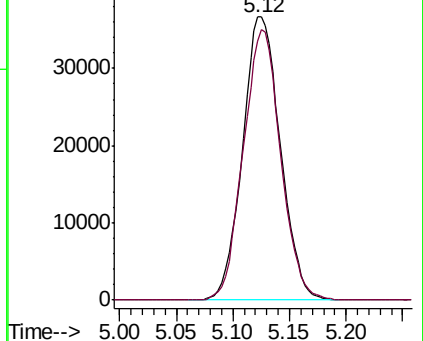
117 100

119 94.3 76.9 115.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.082 ug/L

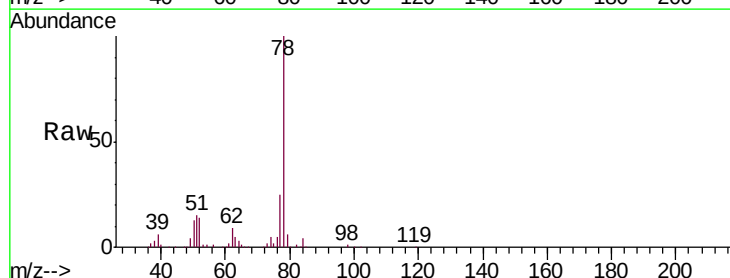
RT: 5.38 min Scan# 1335

Delta R.T. -0.00 min

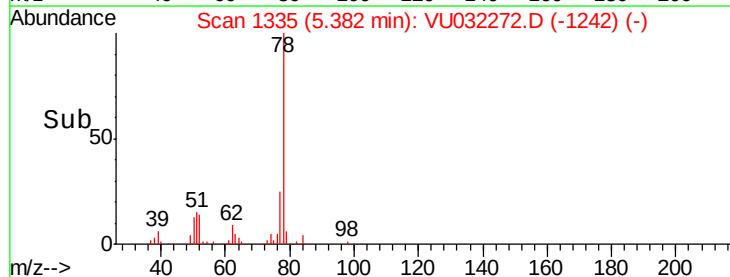
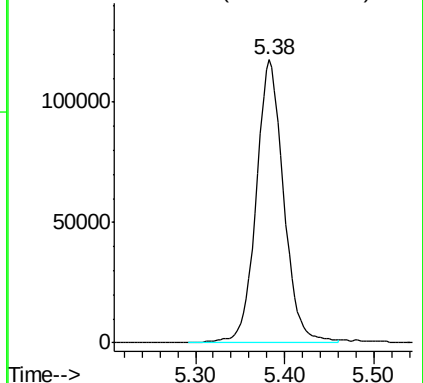
Lab File: VU032272.D

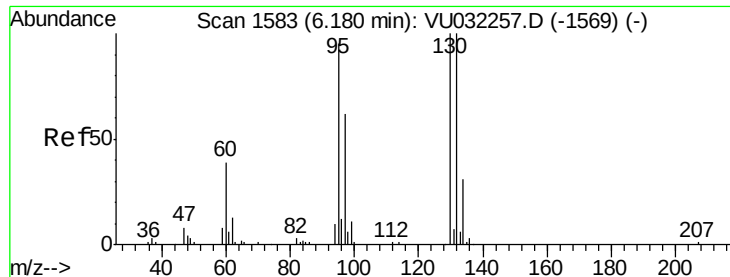
Acq: 23 May 2019 16:29

Tgt Ion: 78 Resp: 253326



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 4.848 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. -0.00 min

Lab File: VU032272.D

Acq: 23 May 2019 16:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD00514

Tgt Ion: 95 Resp: 64870

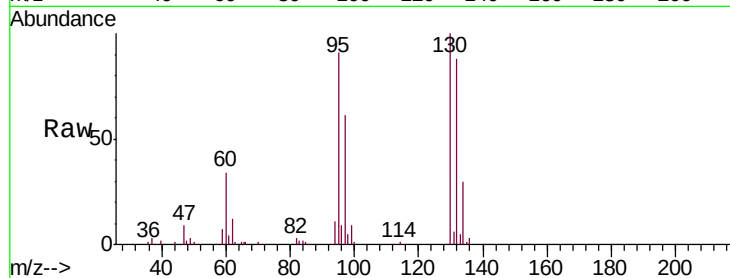
Ion Ratio Lower Upper

95 100

97 66.9 39.9 74.1

132 96.4 65.9 122.5

130 109.4 70.6 131.2

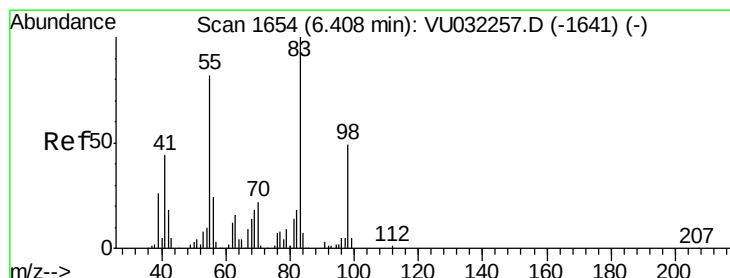
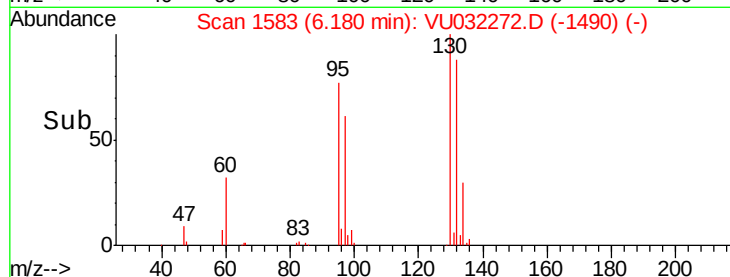
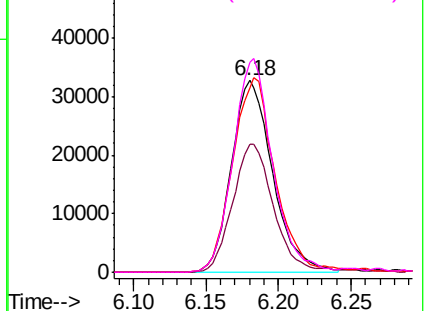


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 4.536 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VU032272.D

Acq: 23 May 2019 16:29

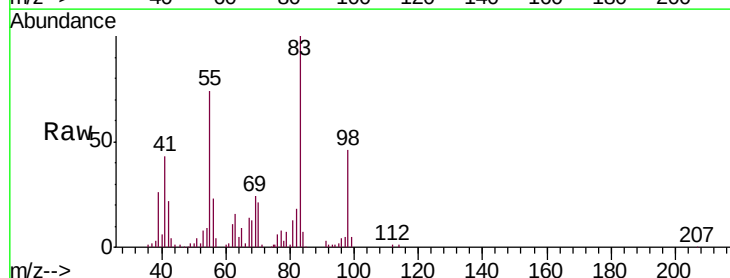
Tgt Ion: 83 Resp: 89400

Ion Ratio Lower Upper

83 100

55 74.6 59.7 89.5

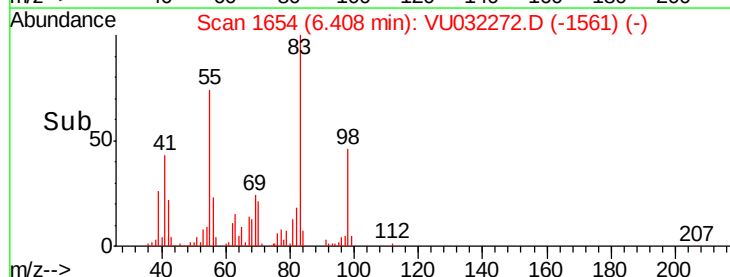
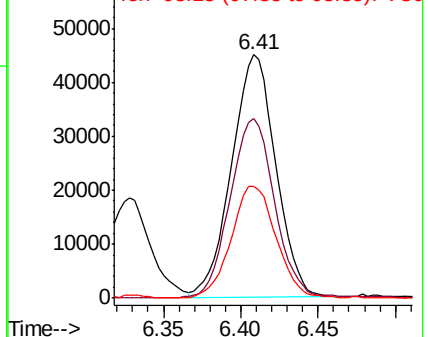
98 47.1 37.5 56.3

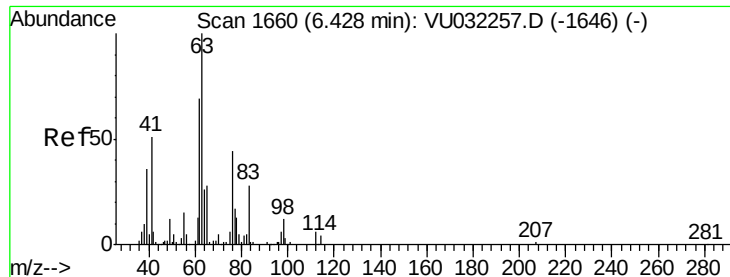


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

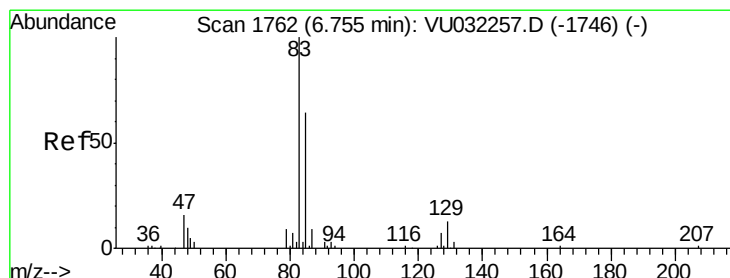
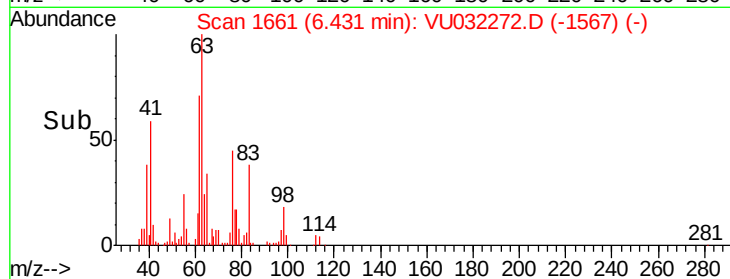
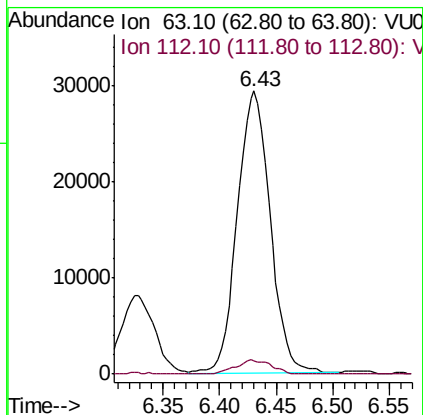
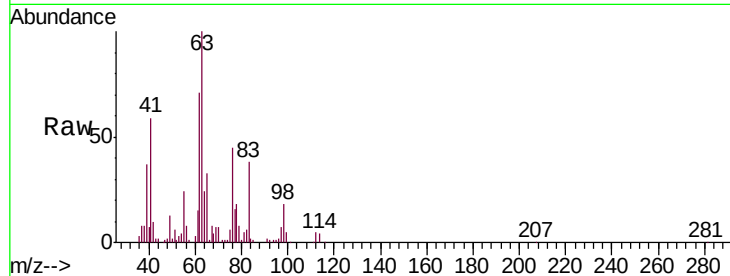




#37
 1,2-Dichloropropane
 Concen: 4.935 ug/L
 RT: 6.43 min Scan# 1661
 Delta R.T. 0.00 min
 Lab File: VU032272.D
 Acq: 23 May 2019 16:29

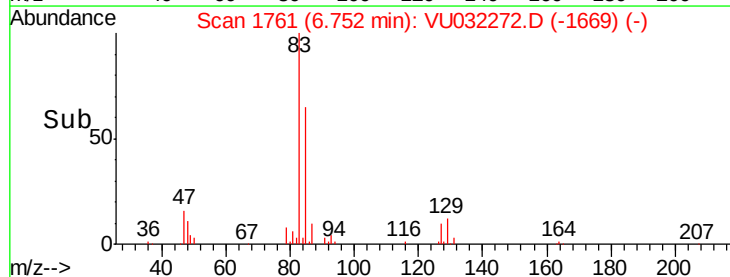
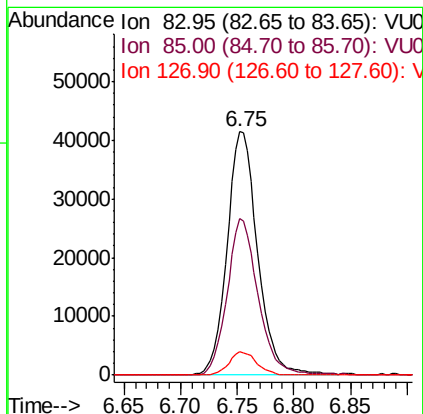
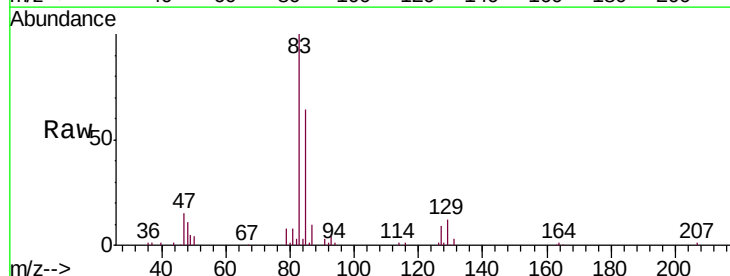
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00514

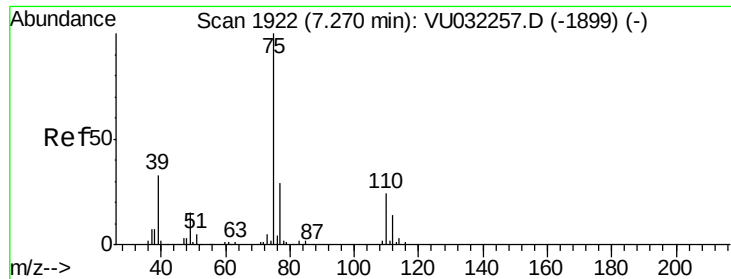
Tgt Ion: 63 Resp: 59231
 Ion Ratio Lower Upper
 63 100
 112 5.4 3.8 5.8



#38
 Bromodichloromethane
 Concen: 5.001 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. -0.00 min
 Lab File: VU032272.D
 Acq: 23 May 2019 16:29

Tgt Ion: 83 Resp: 78014
 Ion Ratio Lower Upper
 83 100
 85 64.1 44.4 82.4
 127 9.4 7.0 10.6

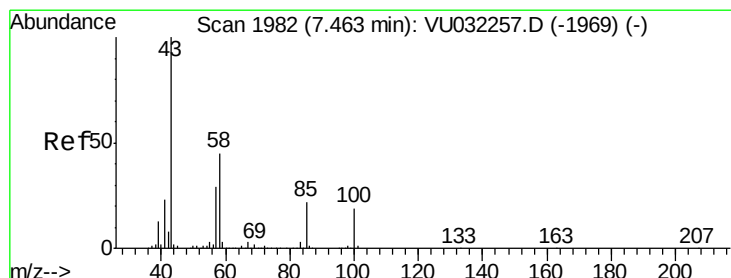
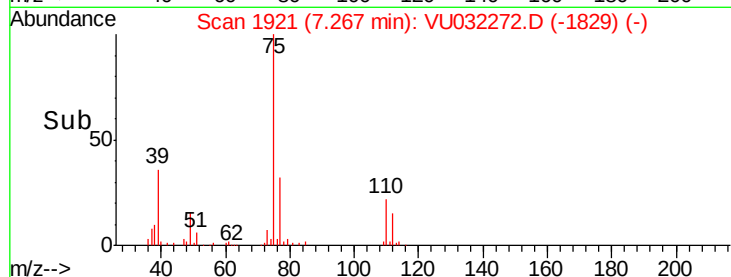
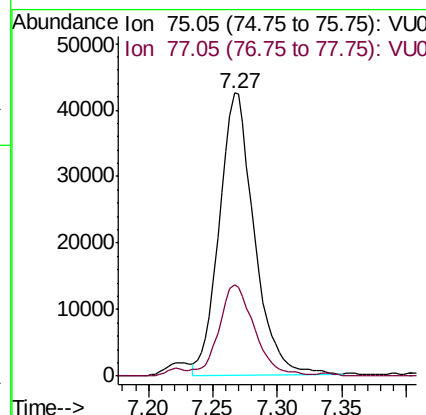
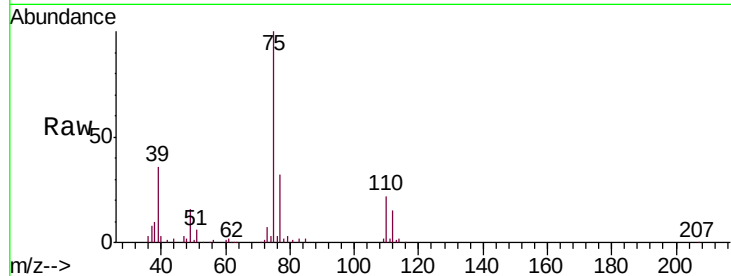




#39
 cis-1,3-Dichloropropene
 Concen: 4.669 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. -0.00 min
 Lab File: VU032272.D
 Acq: 23 May 2019 16:29

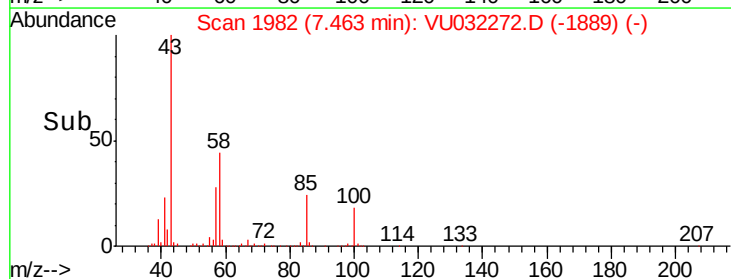
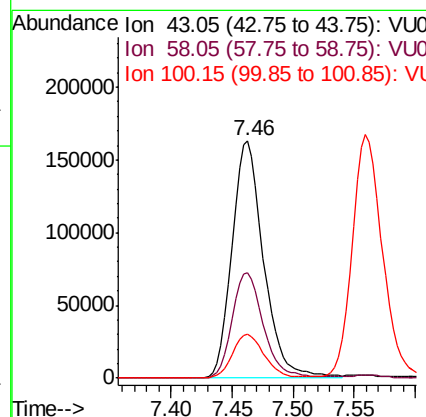
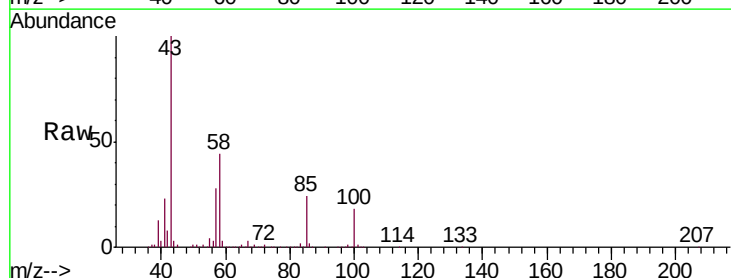
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00514

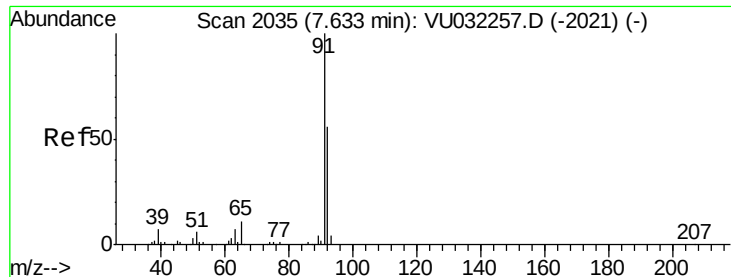
Tgt Ion: 75 Resp: 79790
 Ion Ratio Lower Upper
 75 100
 77 32.4 22.6 42.0



#40
 4-Methyl-2-pentanone
 Concen: 48.787 ug/L
 RT: 7.46 min Scan# 1982
 Delta R.T. -0.00 min
 Lab File: VU032272.D
 Acq: 23 May 2019 16:29

Tgt Ion: 43 Resp: 295994
 Ion Ratio Lower Upper
 43 100
 58 44.0 35.8 53.6
 100 18.8 14.6 22.0





#42

Toluene

Concen: 5.235 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU032272.D

Acq: 23 May 2019 16:29

Instrument :

MSVOA_U

ClientSampleId :

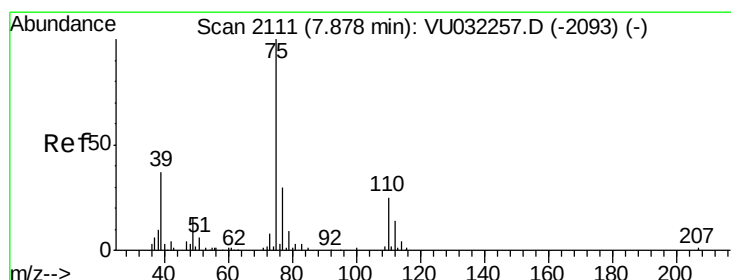
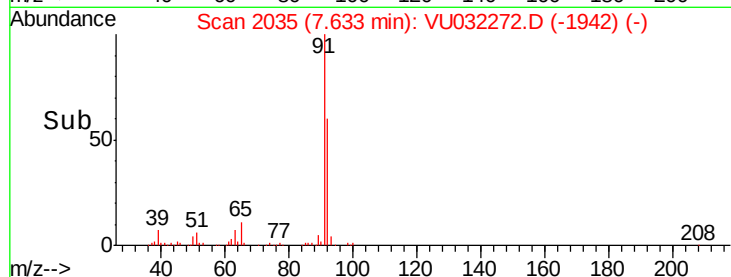
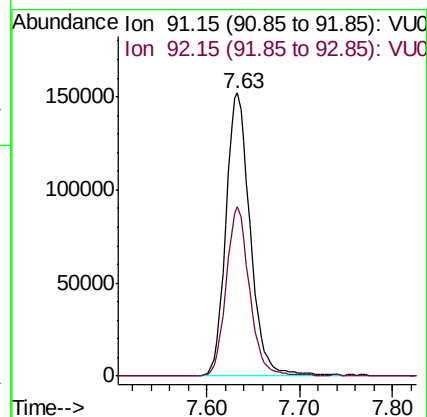
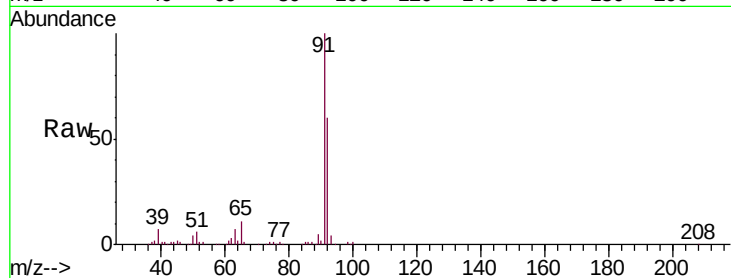
VSTD00514

Tgt Ion: 91 Resp: 277279

Ion Ratio Lower Upper

91 100

92 59.7 38.5 71.5



#44

trans-1,3-Dichloropropene

Concen: 5.125 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VU032272.D

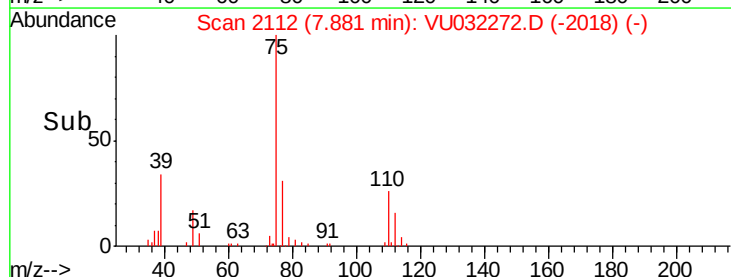
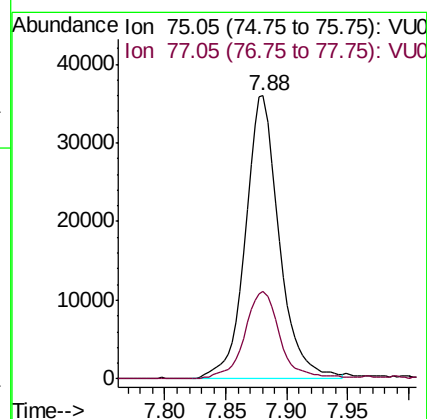
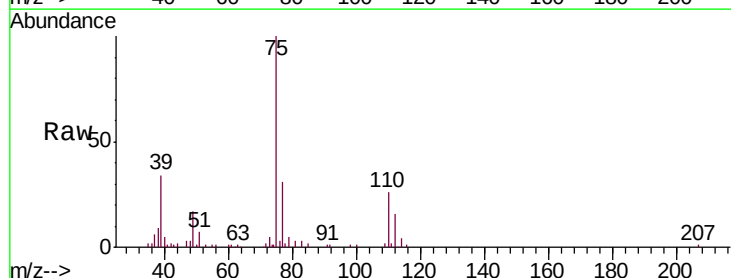
Acq: 23 May 2019 16:29

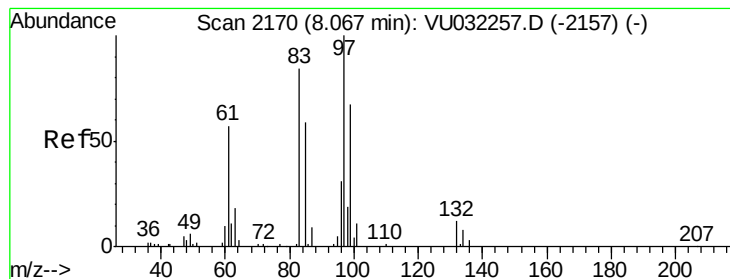
Tgt Ion: 75 Resp: 68826

Ion Ratio Lower Upper

75 100

77 30.8 22.5 41.9





#45

1,1,2-Trichloroethane

Concen: 4.911 ug/L

RT: 8.07 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VU032272.D

Acq: 23 May 2019 16:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD00514

Tgt Ion: 97 Resp: 45520

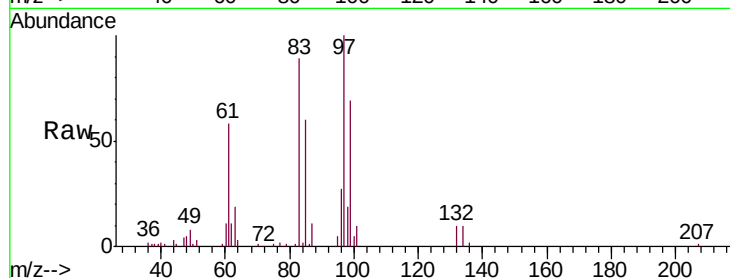
Ion Ratio Lower Upper

97 100

99 68.7 44.2 82.0

83 88.5 60.5 112.3

85 59.8 36.3 67.3



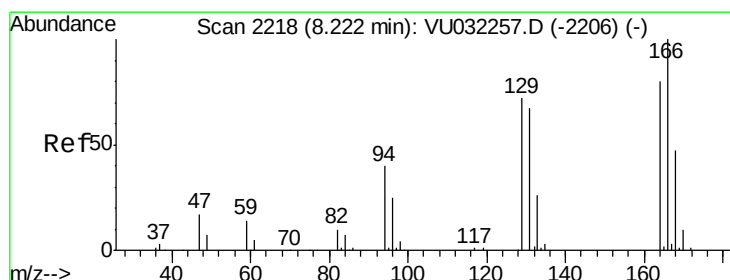
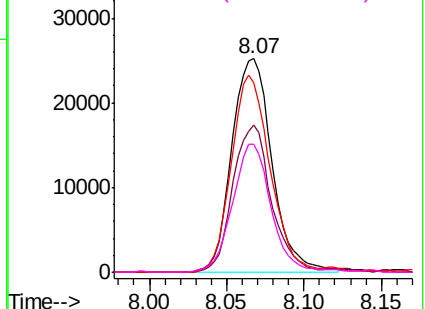
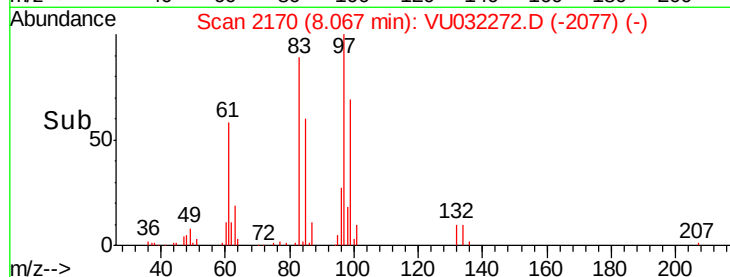
Abundance

Ion 96.95 (96.65 to 97.65): VU032272.D (-2177) (-)

Ion 99.05 (98.75 to 99.75): VU032272.D (-2177) (-)

Ion 82.95 (82.65 to 83.65): VU032272.D (-2177) (-)

Ion 85.00 (84.70 to 85.70): VU032272.D (-2177) (-)



#47

Tetrachloroethene

Concen: 5.178 ug/L

RT: 8.22 min Scan# 2218

Delta R.T. -0.00 min

Lab File: VU032272.D

Acq: 23 May 2019 16:29

Tgt Ion: 164 Resp: 57194

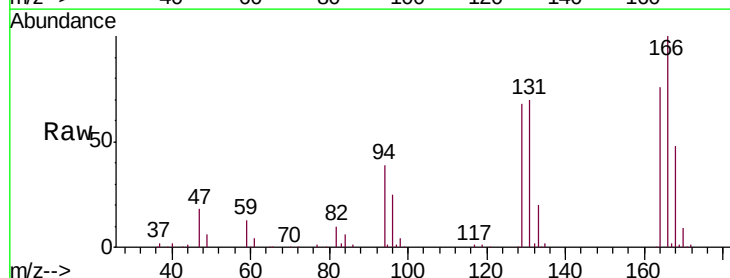
Ion Ratio Lower Upper

164 100

129 89.7 67.1 124.7

131 91.5 62.2 115.4

166 131.4 90.9 168.9



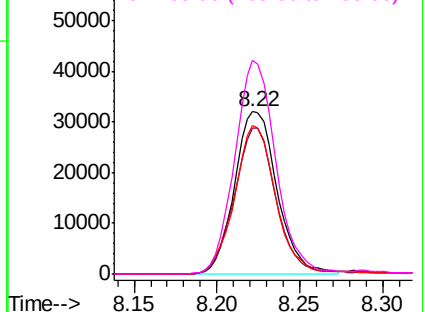
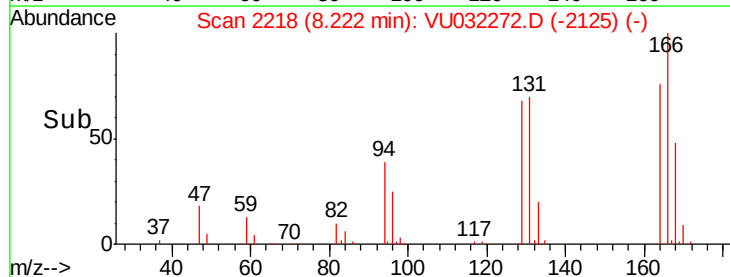
Abundance

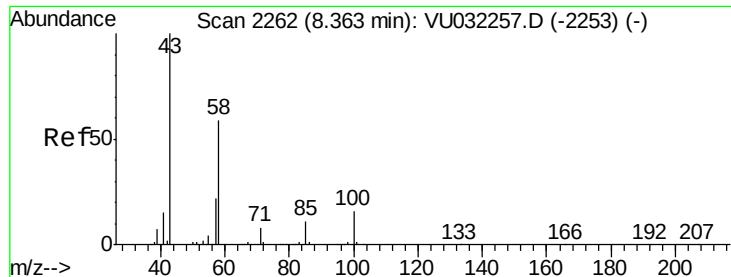
Ion 163.90 (163.60 to 164.60): VU032272.D (-2215) (-)

Ion 128.95 (128.65 to 129.65): VU032272.D (-2215) (-)

Ion 130.95 (130.65 to 131.65): VU032272.D (-2215) (-)

Ion 165.90 (165.60 to 166.60): VU032272.D (-2215) (-)

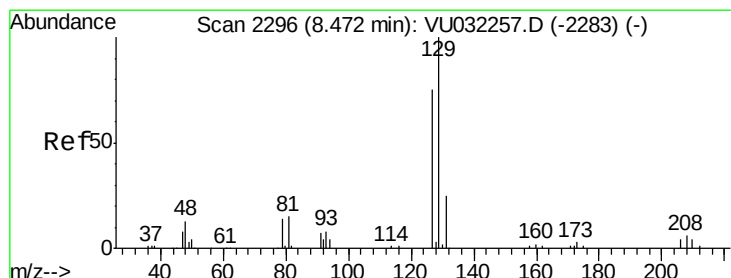
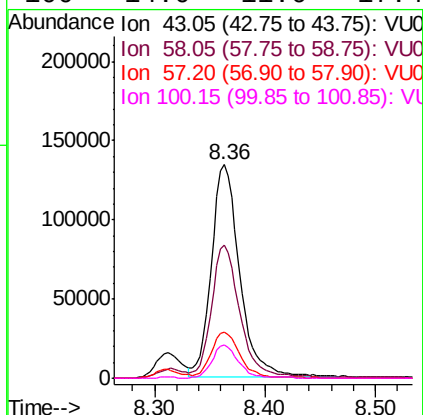
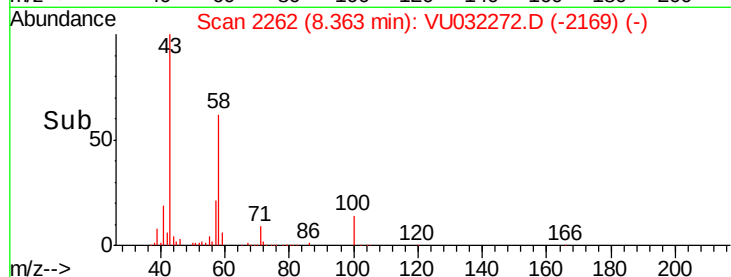
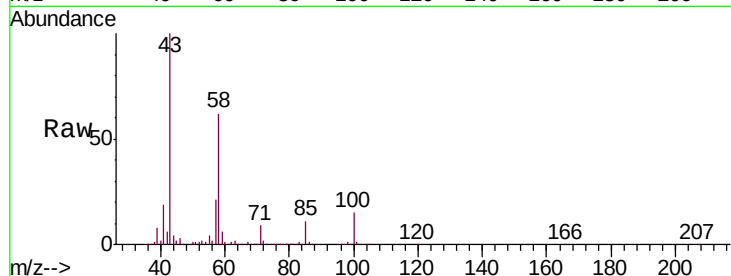




#48
2-Hexanone
Concen: 51.214 ug/L
RT: 8.36 min Scan# 2262
Delta R.T. -0.00 min
Lab File: VU032272.D
Acq: 23 May 2019 16:29

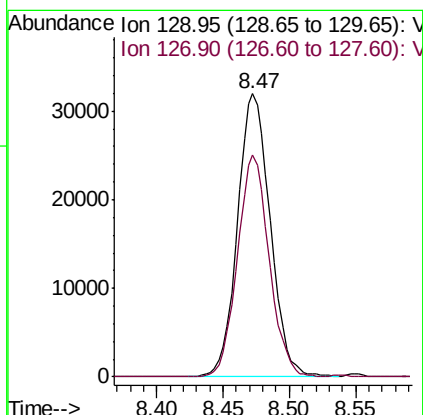
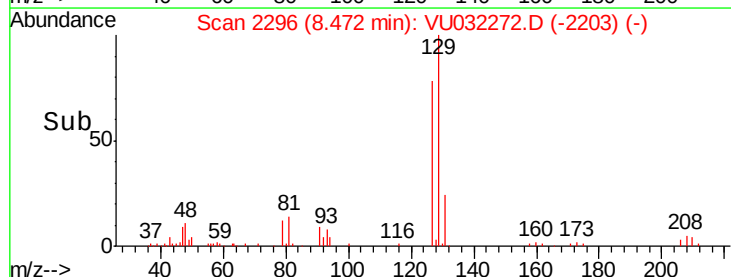
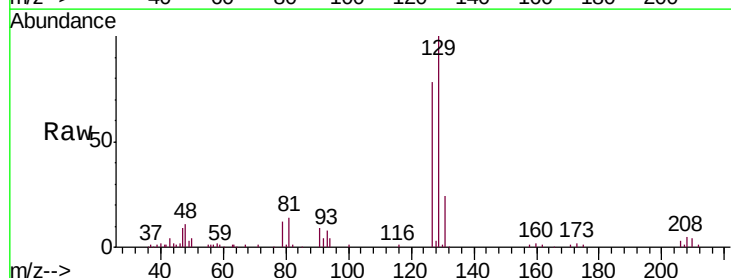
Instrument :
MSVOA_U
ClientSampleId :
VSTD00514

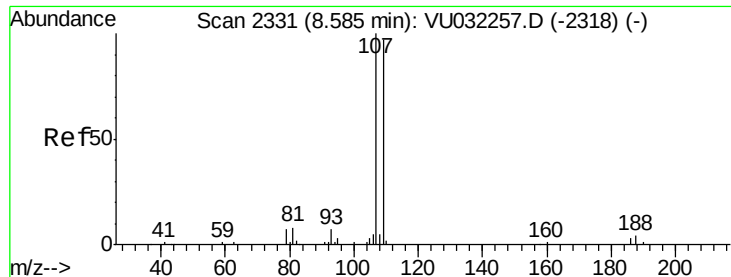
Tgt Ion:	43	Resp:	238322
Ion	Ratio	Lower	Upper
43	100		
58	62.5	49.7	74.5
57	20.9	17.1	25.7
100	14.0	11.6	17.4



#49
Dibromochloromethane
Concen: 5.183 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VU032272.D
Acq: 23 May 2019 16:29

Tgt Ion:	129	Resp:	54683
Ion	Ratio	Lower	Upper
129	100		
127	78.3	51.7	95.9





#50

1,2-Dibromoethane

Concen: 5.277 ug/L

RT: 8.58 min Scan# 2331

Delta R.T. -0.00 min

Lab File: VU032272.D

Acq: 23 May 2019 16:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD00514

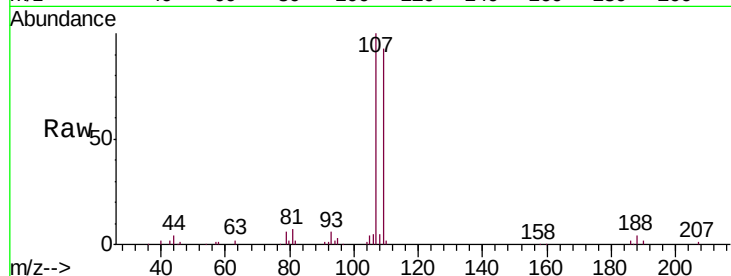
Tgt Ion:107 Resp: 46114

Ion Ratio Lower Upper

107 100

109 93.2 65.8 122.2

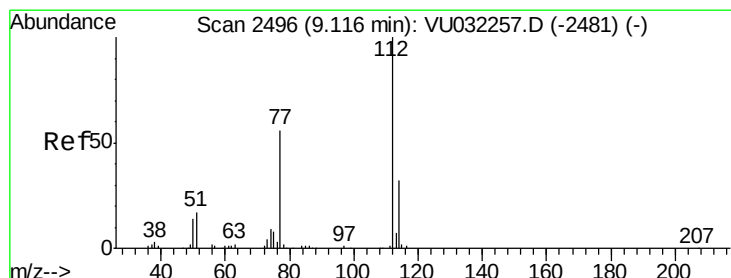
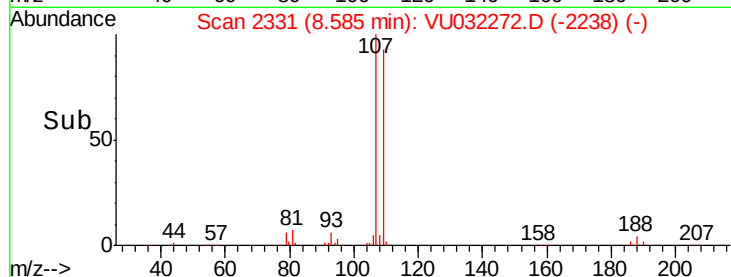
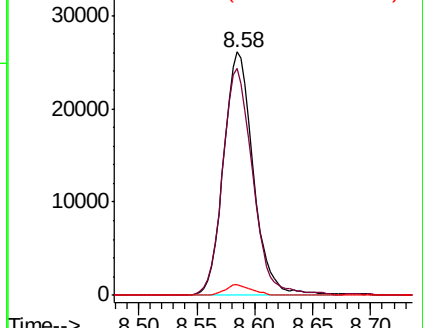
188 4.5 2.6 3.8#



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: 5.213 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. -0.00 min

Lab File: VU032272.D

Acq: 23 May 2019 16:29

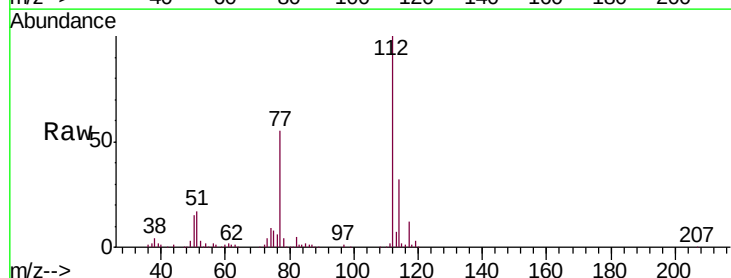
Tgt Ion:112 Resp: 176739

Ion Ratio Lower Upper

112 100

114 32.1 22.6 42.0

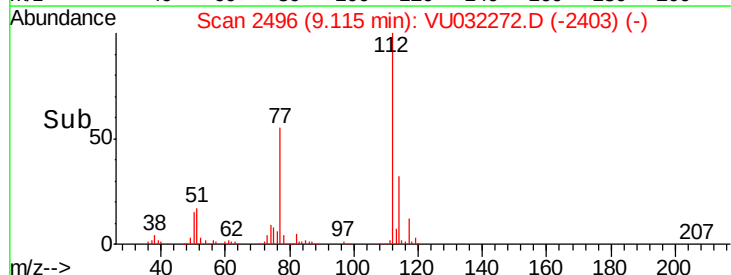
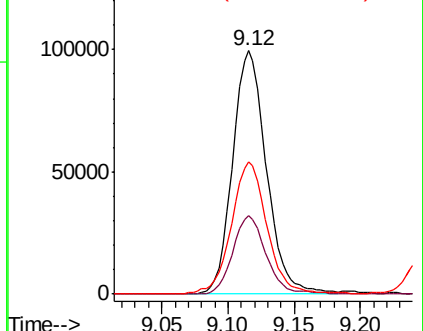
77 54.6 46.8 70.2

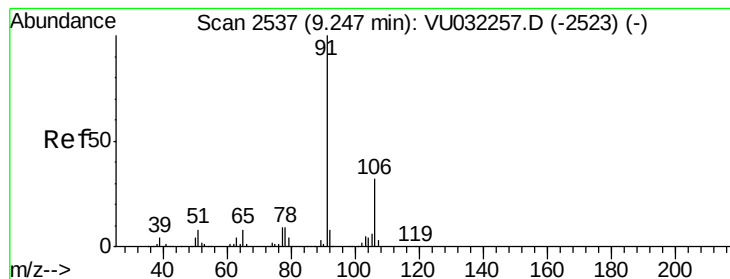


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU





#52

Ethylbenzene

Concen: 4.872 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. -0.00 min

Lab File: VU032272.D

Acq: 23 May 2019 16:29

Instrument :

MSVOA_U

ClientSampleId :

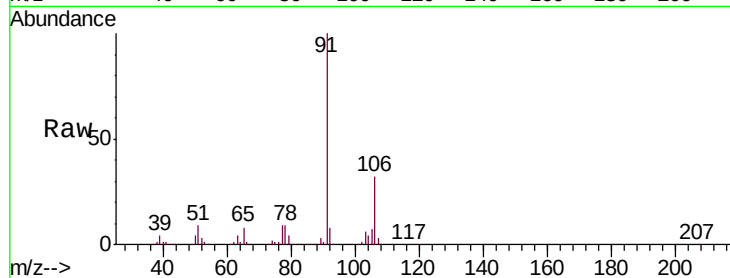
VSTD00514

Tgt Ion: 91 Resp: 259784

Ion Ratio Lower Upper

91 100

106 31.7 20.9 38.9



Abundance Ion 91.15 (90.85 to 91.85): VU032272.D (-2444) (-)

Ion 106.15 (105.85 to 106.85): VU032272.D (-2444) (-)

9.25

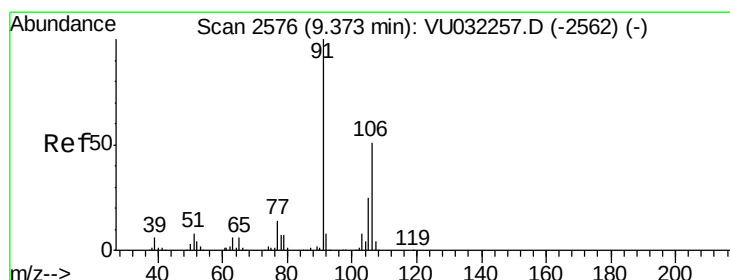
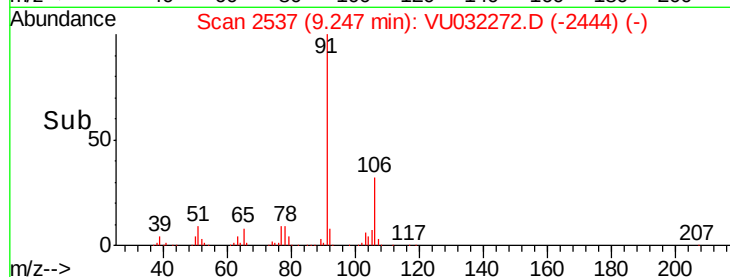
150000

100000

50000

0

Time--> 9.15 9.20 9.25 9.30 9.35



#53

m,p-Xylene

Concen: 5.152 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. -0.00 min

Lab File: VU032272.D

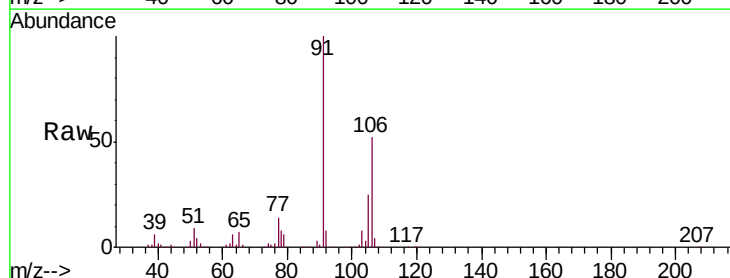
Acq: 23 May 2019 16:29

Tgt Ion: 106 Resp: 102155

Ion Ratio Lower Upper

106 100

91 190.8 143.9 267.2



Abundance Ion 106.15 (105.85 to 106.85): VU032272.D (-2483) (-)

Ion 91.15 (90.85 to 91.85): VU032272.D (-2483) (-)

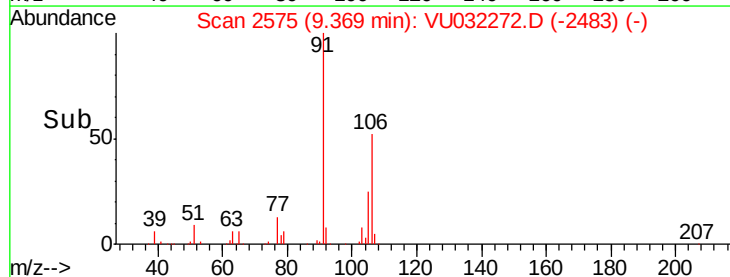
9.37

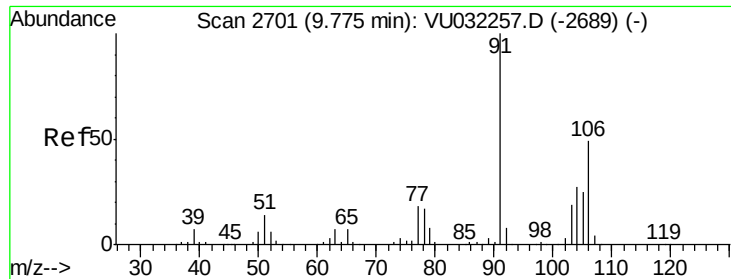
100000

50000

0

Time--> 9.30 9.35 9.40 9.45

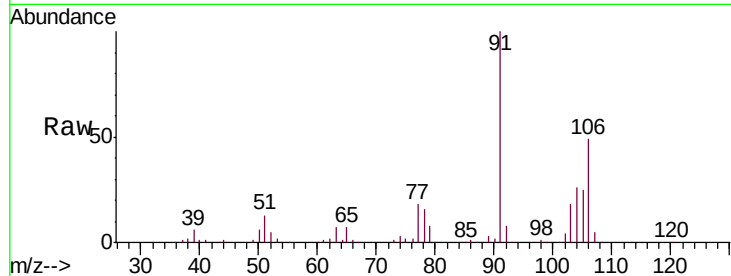




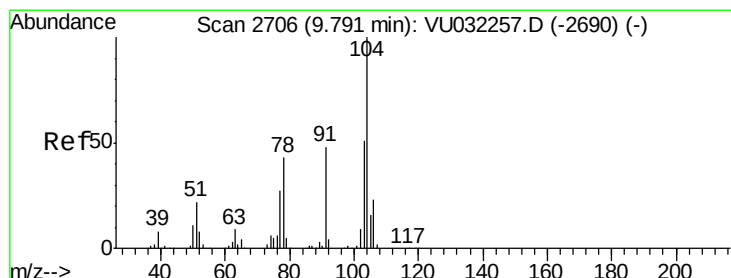
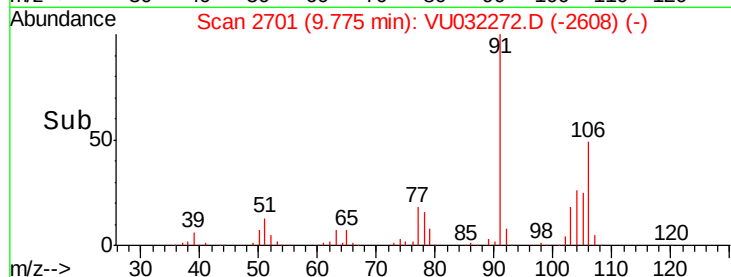
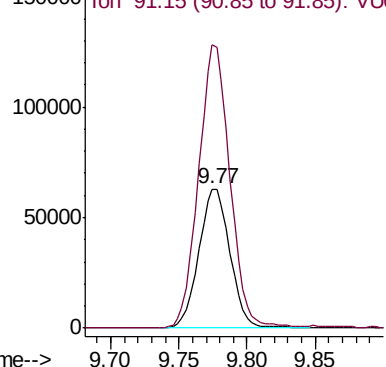
#54
o-Xylene
Concen: 5.064 ug/L
RT: 9.77 min Scan# 2701
Delta R.T. -0.00 min
Lab File: VU032272.D
Acq: 23 May 2019 16:29

Instrument :
MSVOA_U
ClientSampleId :
VSTD00514

Tgt Ion:106 Resp: 100328
Ion Ratio Lower Upper
106 100
91 203.2 147.8 274.4

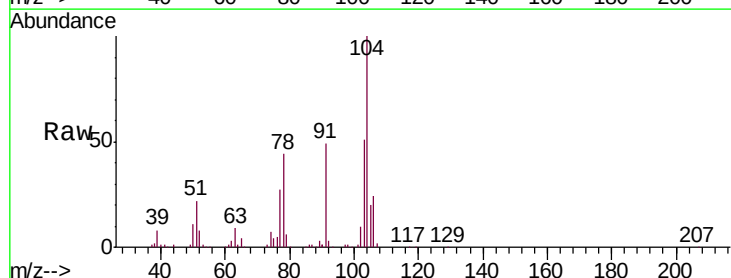


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

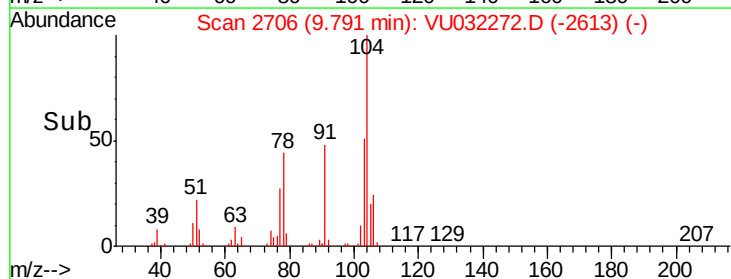
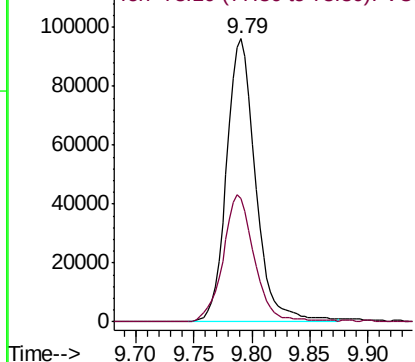


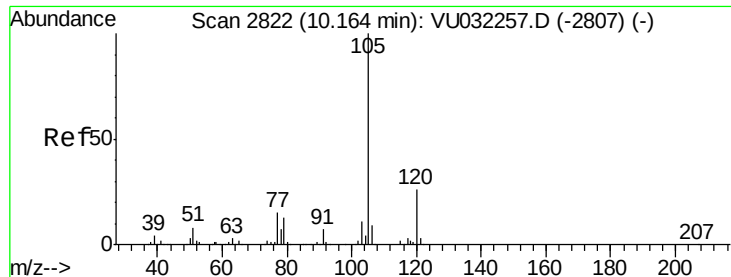
#55
Styrene
Concen: 5.045 ug/L
RT: 9.79 min Scan# 2706
Delta R.T. -0.00 min
Lab File: VU032272.D
Acq: 23 May 2019 16:29

Tgt Ion:104 Resp: 167241
Ion Ratio Lower Upper
104 100
78 43.7 30.3 56.3



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 5.026 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU032272.D

Acq: 23 May 2019 16:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD00514

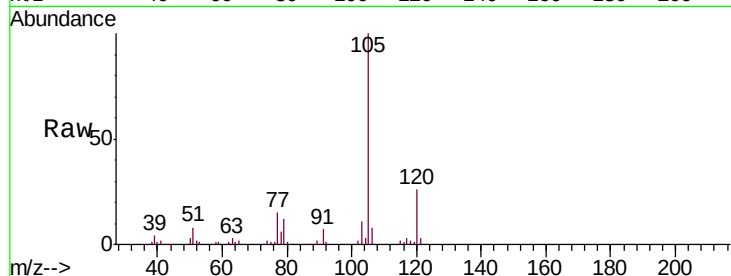
Tgt Ion:105 Resp: 251714

Ion Ratio Lower Upper

105 100

120 26.3 21.0 31.6

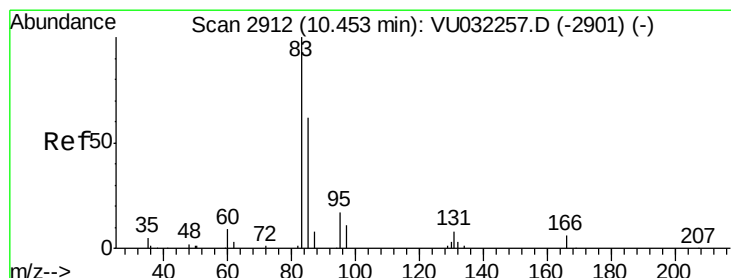
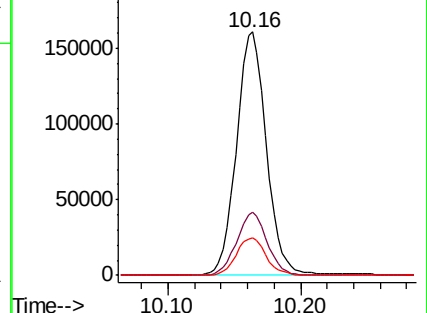
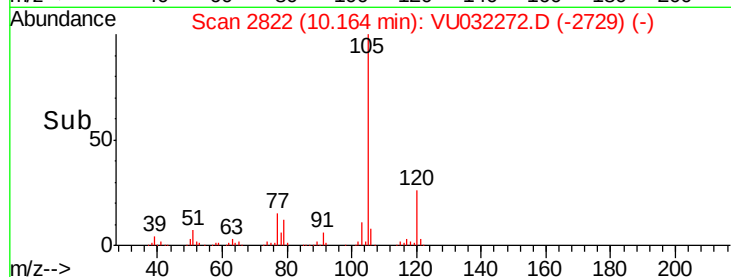
77 15.8 11.9 17.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.971 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VU032272.D

Acq: 23 May 2019 16:29

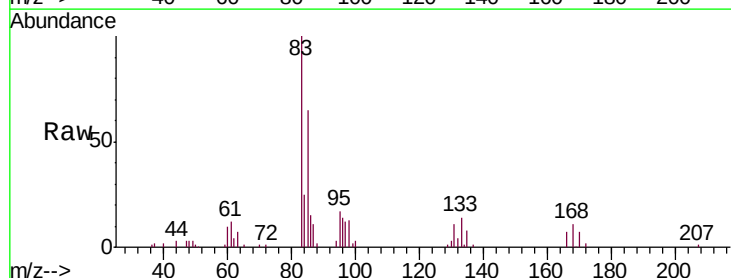
Tgt Ion: 83 Resp: 55500

Ion Ratio Lower Upper

83 100

85 64.7 46.5 86.3

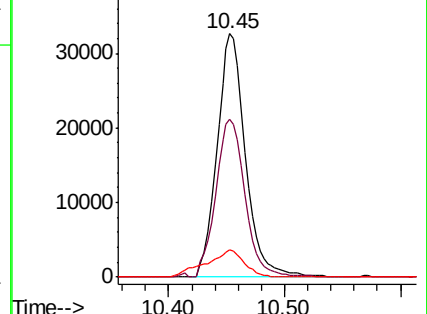
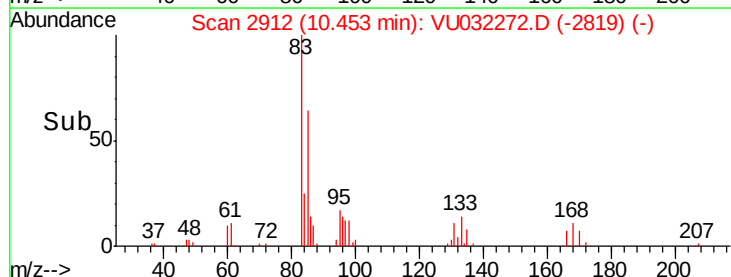
131 11.1 7.8 11.6

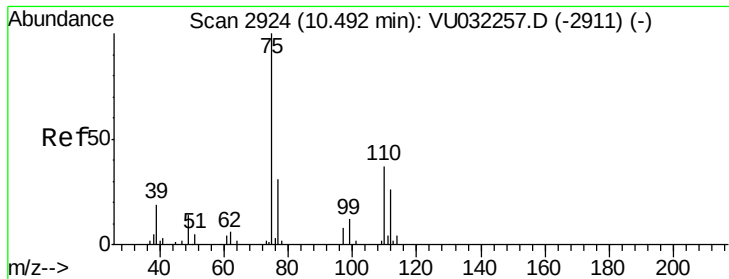


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.145 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. -0.00 min

Lab File: VU032272.D

Acq: 23 May 2019 16:29

Instrument :

MSVOA_U

ClientSampleId :

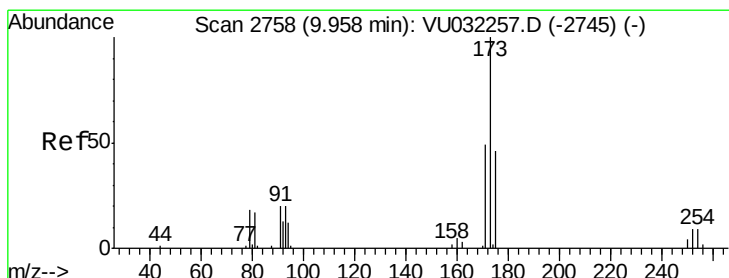
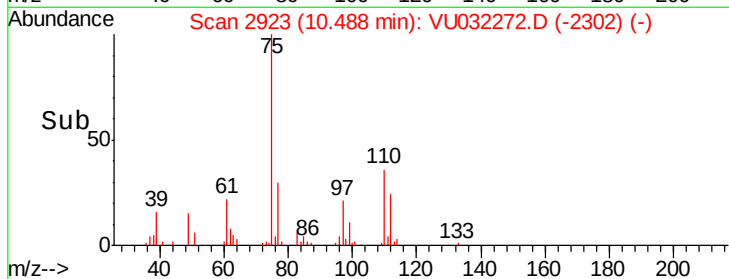
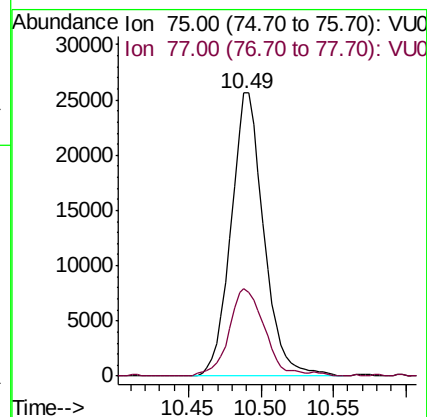
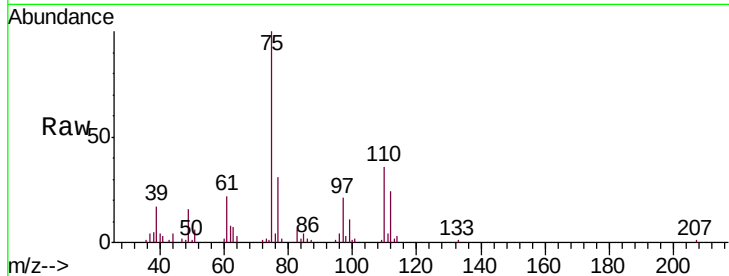
VSTD00514

Tgt Ion: 75 Resp: 40213

Ion Ratio Lower Upper

75 100

77 34.0 28.2 42.4



#61

Bromoform

Concen: 5.021 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. -0.00 min

Lab File: VU032272.D

Acq: 23 May 2019 16:29

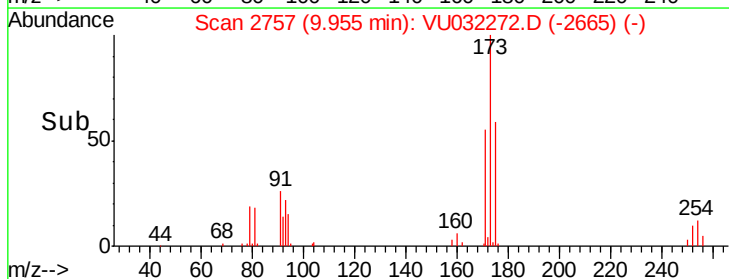
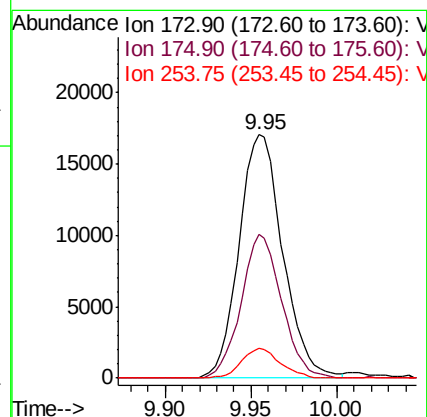
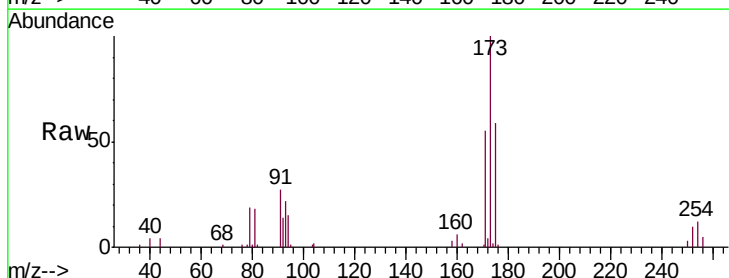
Tgt Ion: 173 Resp: 30039

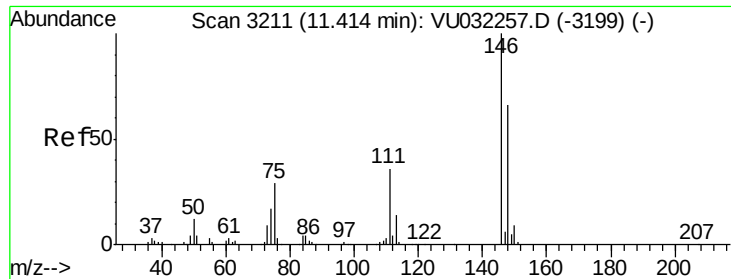
Ion Ratio Lower Upper

173 100

175 54.5 40.1 60.1

254 10.8 7.8 11.6





#62

1,3-Dichlorobenzene

Concen: 5.137 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. -0.00 min

Lab File: VU032272.D

Acq: 23 May 2019 16:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD00514

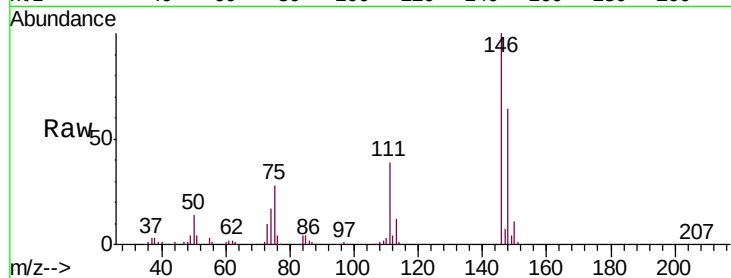
Tgt Ion:146 Resp: 126782

Ion Ratio Lower Upper

146 100

111 39.1 28.2 52.4

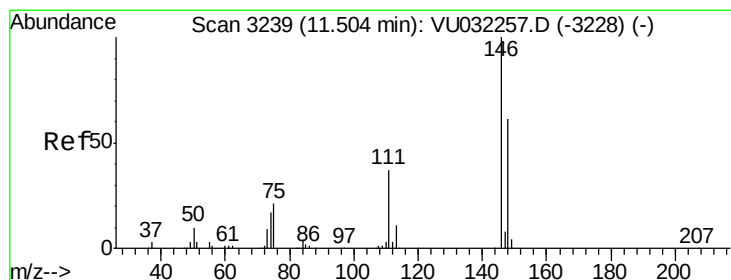
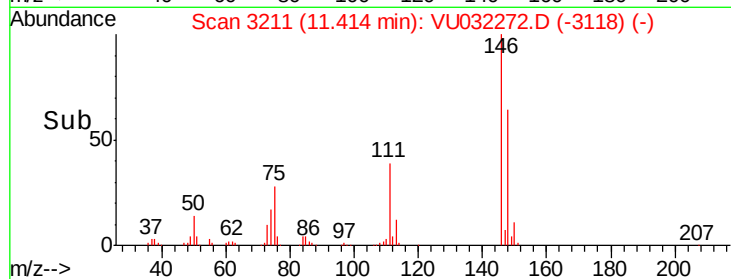
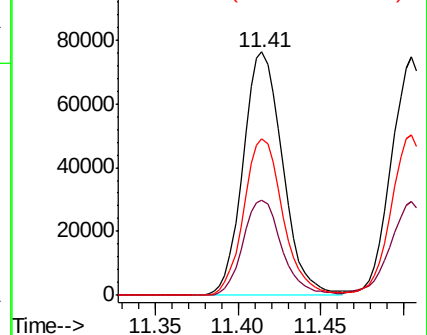
148 64.4 46.0 85.4



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



#63

1,4-Dichlorobenzene

Concen: 4.873 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. -0.00 min

Lab File: VU032272.D

Acq: 23 May 2019 16:29

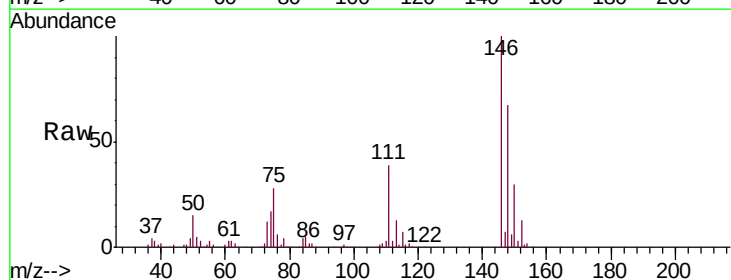
Tgt Ion:146 Resp: 126122

Ion Ratio Lower Upper

146 100

111 39.2 26.6 49.4

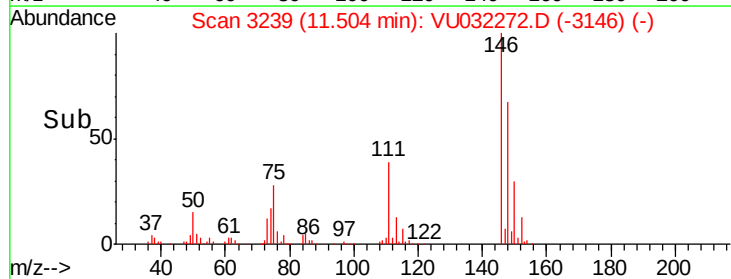
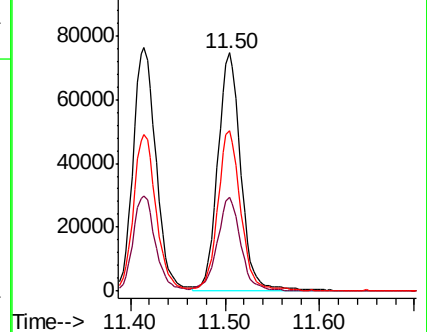
148 67.4 45.2 84.0

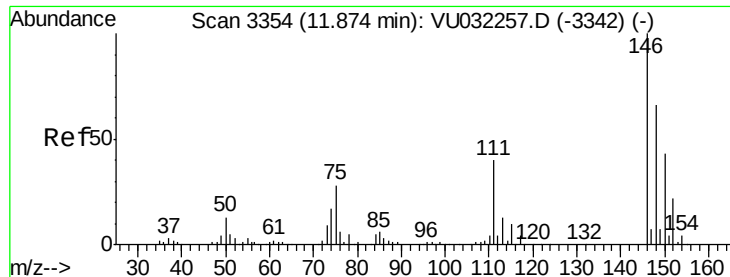


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 5.240 ug/L

RT: 11.87 min Scan# 3354

Delta R.T. -0.00 min

Lab File: VU032272.D

Acq: 23 May 2019 16:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD00514

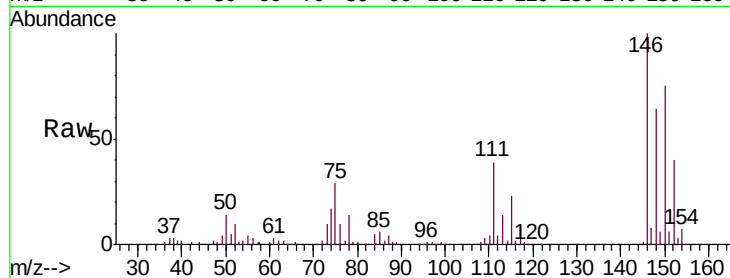
Tgt Ion:146 Resp: 131169

Ion Ratio Lower Upper

146 100

111 38.9 33.9 50.9

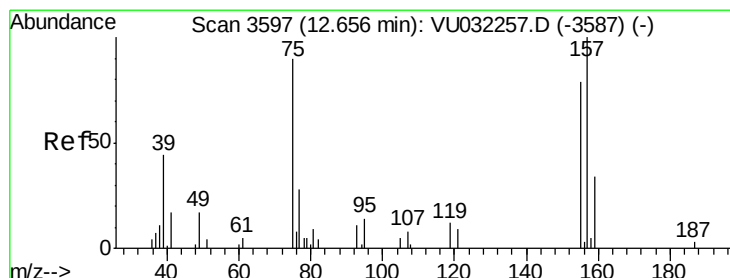
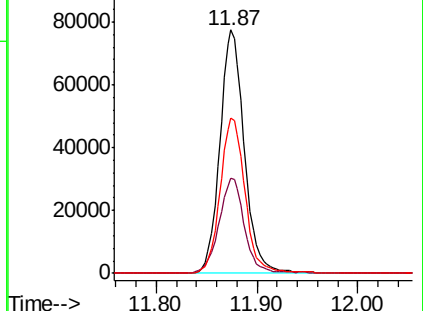
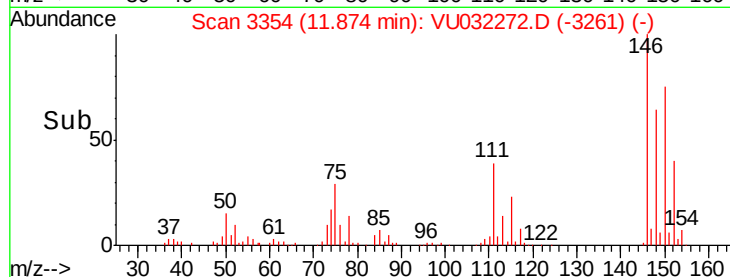
148 63.6 54.3 81.5



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: 4.656 ug/L

RT: 12.66 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VU032272.D

Acq: 23 May 2019 16:29

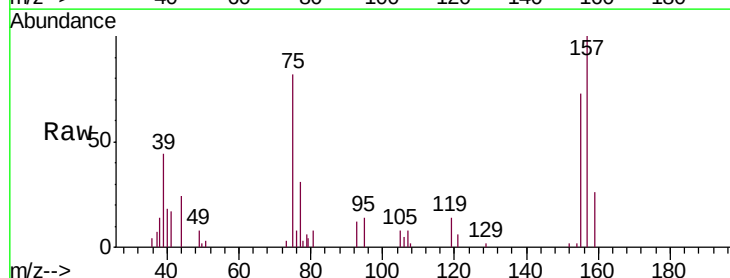
Tgt Ion: 75 Resp: 7525

Ion Ratio Lower Upper

75 100

155 88.9 69.3 103.9

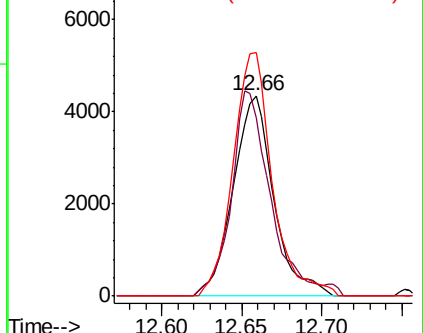
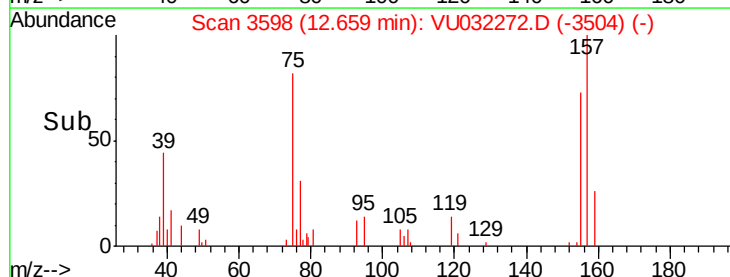
157 121.4 90.6 135.8

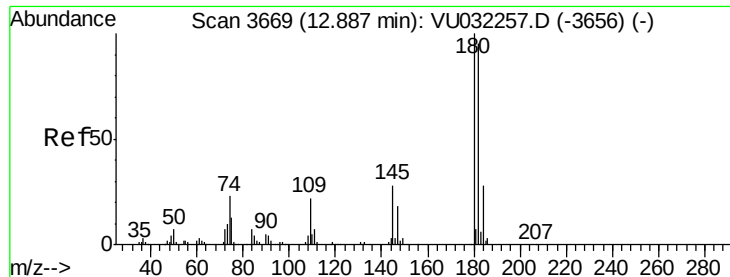


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

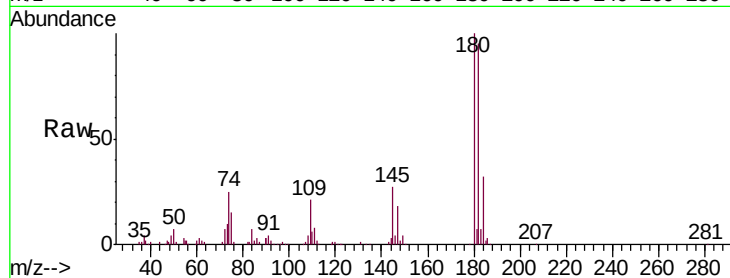




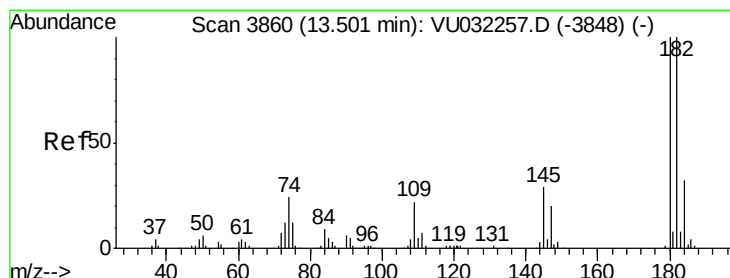
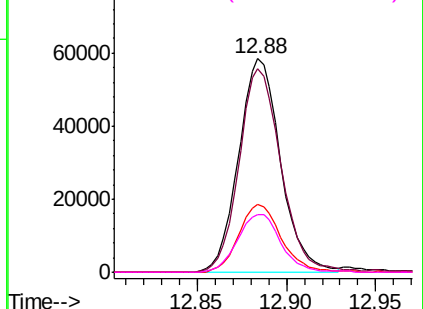
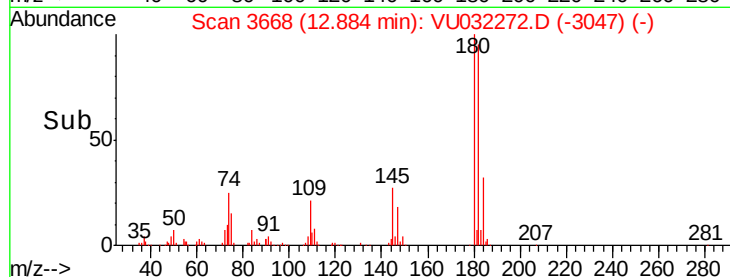
#67
 1,3,5-Trichlorobenzene
 Concen: 5.092 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. -0.00 min
 Lab File: VU032272.D
 Acq: 23 May 2019 16:29

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00514

Tgt Ion:	180	Resp:	95622
Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.2	114.4
184	32.2	24.3	36.5
145	28.0	23.6	35.4

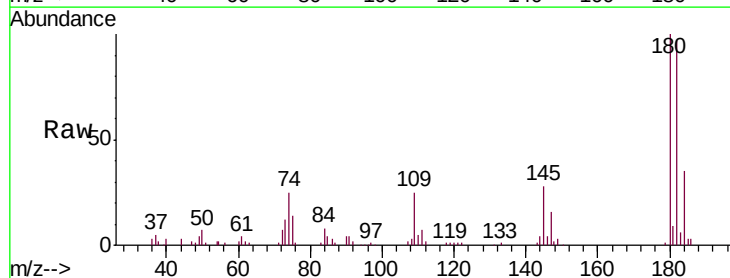


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

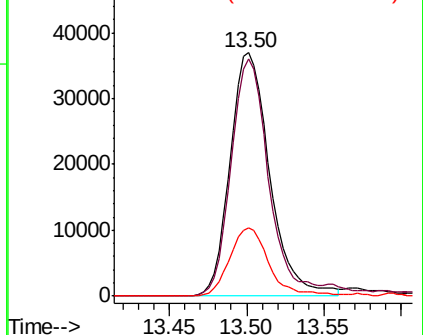
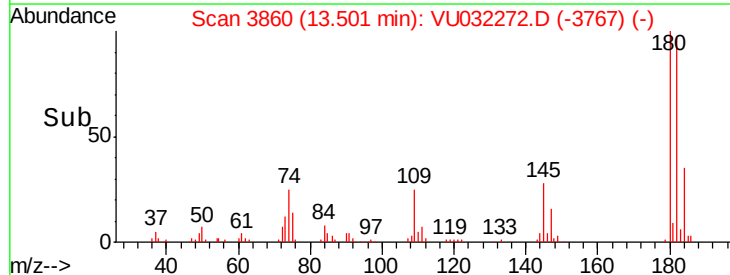


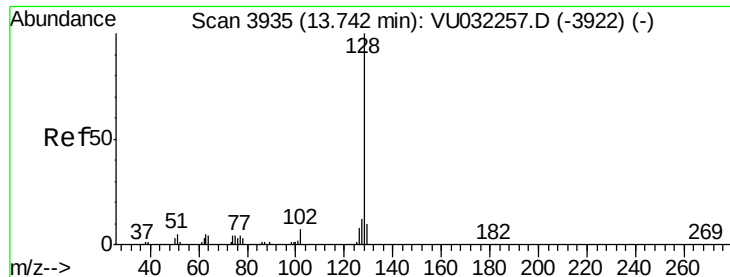
#68
 1,2,4-trichlorobenzene
 Concen: 4.975 ug/L
 RT: 13.50 min Scan# 3860
 Delta R.T. -0.00 min
 Lab File: VU032272.D
 Acq: 23 May 2019 16:29

Tgt Ion:	180	Resp:	65877
Ion	Ratio	Lower	Upper
180	100		
182	91.8	75.9	113.9
145	27.8	21.7	32.5



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: 4.255 ug/L

RT: 13.74 min Scan# 3935

Delta R.T. -0.00 min

Lab File: VU032272.D

Acq: 23 May 2019 16:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD00514

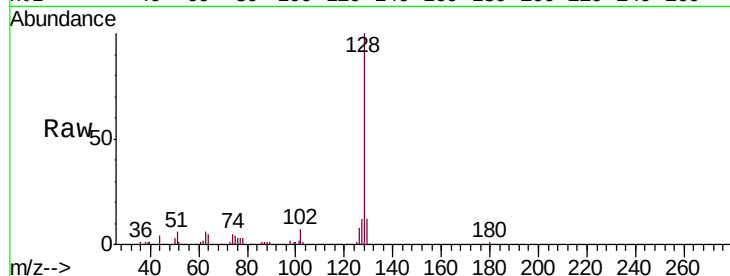
Tgt Ion:128 Resp: 86193

Ion Ratio Lower Upper

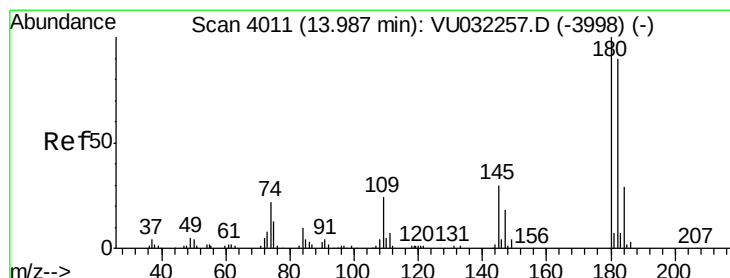
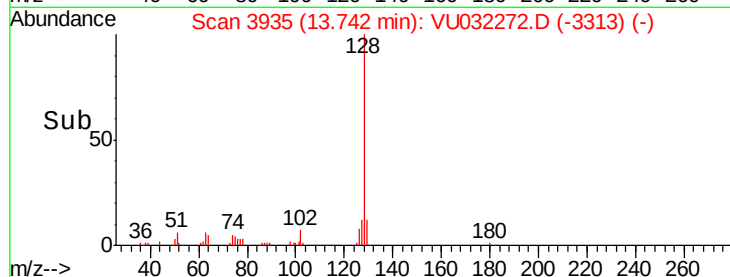
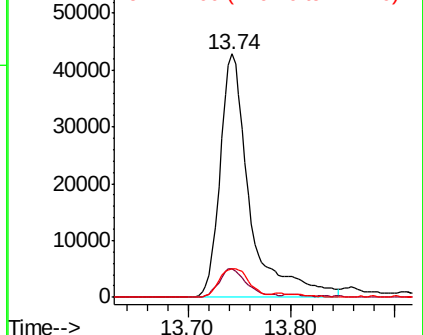
128 100

129 11.1 9.2 13.8

127 12.0 11.1 16.7



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: 4.628 ug/L

RT: 13.99 min Scan# 4011

Delta R.T. -0.00 min

Lab File: VU032272.D

Acq: 23 May 2019 16:29

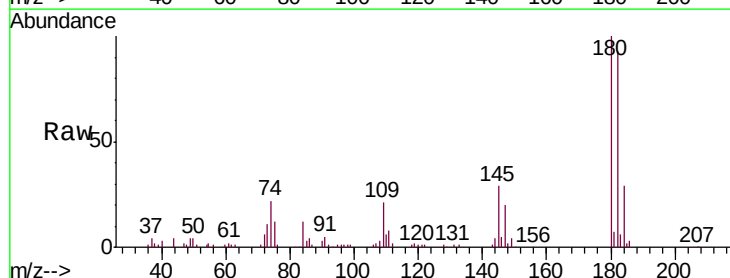
Tgt Ion:180 Resp: 64868

Ion Ratio Lower Upper

180 100

182 99.0 74.6 111.8

145 31.3 23.4 35.0



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

