

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080819\
 Data File : VU033628.D
 Acq On : 08 Aug 2019 11:17
 Operator : JC/SP
 Sample : VSTD00531
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Aug 08 15:27:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080819WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Aug 08 15:24:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	285254	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	283706	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	139696	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	16572	7.86	ug/L	0.00
7) Chloroethane-d5	1.67	69	14059	6.21	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.26	63	26090	6.69	ug/L	0.00
21) 2-Butanone-d5	4.17	46	21488	12.85	ug/L	0.02
24) Chloroform-d	4.63	84	26432	6.85	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.29	65	17611	7.14	ug/L	0.00
32) Benzene-d6	5.32	84	50888	6.53	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	16139	6.52	ug/L	0.00
41) Toluene-d8	7.55	98	45130	6.23	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.84	79	7437	6.01	ug/L	0.00
47) 2-Hexanone-d5	8.30	63	13451	11.04	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.41	84	25878	6.83	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.85	152	19472	6.99	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	14806	6.019 ug/L	99
3) Chloromethane	1.32	50	16948	6.357 ug/L	98
5) Vinyl chloride	1.40	62	16872	5.749 ug/L	96
6) Bromomethane	1.62	94	11157	5.050 ug/L	91
8) Chloroethane	1.69	64	10933	4.760 ug/L	98
9) Trichlorofluoromethane	1.88	101	22657	5.937 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	11847	6.088 ug/L	99
12) 1,1-Dichloroethene	2.27	96	11110	5.913 ug/L	85
13) Acetone	2.32	43	19300	12.734 ug/L	99
14) Carbon disulfide	2.47	76	33196	5.712 ug/L	95
15) Methyl Acetate	2.61	43	13453	5.495 ug/L	100
16) Methylene chloride	2.69	84	13334	6.064 ug/L	97
17) trans-1,2-Dichloroethene	2.97	96	11298	5.626 ug/L	98
18) Methyl tert-butyl Ether	2.98	73	33790	5.429 ug/L	100
19) 1,1-Dichloroethane	3.43	63	22598	5.943 ug/L	96
20) cis-1,2-Dichloroethene	4.21	96	11901	5.361 ug/L	100
22) 2-Butanone	4.25	43	18687	9.924 ug/L	94
23) Bromochloromethane	4.53	128	6861	5.907 ug/L	87
25) Chloroform	4.65	83	23573	5.975 ug/L	99
27) 1,2-Dichloroethane	5.39	62	18159	5.919 ug/L	98
29) Cyclohexane	4.97	56	16534	5.104 ug/L #	89
30) 1,1,1-Trichloroethane	4.89	97	19697	5.830 ug/L #	90
31) Carbon tetrachloride	5.11	117	17010	5.725 ug/L	99
33) Benzene	5.37	78	47592	5.568 ug/L	100
34) Trichloroethene	6.17	95	12362	5.612 ug/L	95
35) Methylcyclohexane	6.40	83	17450	5.053 ug/L	97
37) 1,2-Dichloropropane	6.41	63	13146	5.625 ug/L #	95
38) Bromodichloromethane	6.74	83	16781	5.690 ug/L	97
39) cis-1,3-Dichloropropene	7.25	75	17440	4.898 ug/L	100
40) 4-Methyl-2-pentanone	7.45	43	35363	10.540 ug/L	98

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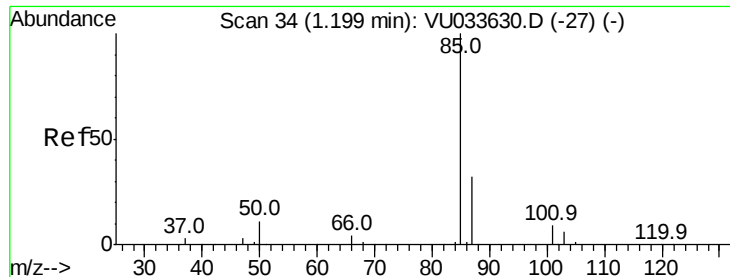
Instrument :
 MSVOA_U
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080819WMA.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

42) Toluene	7.62	91	48889	5.354	ug/L	97
44) trans-1,3-Dichloropropene	7.87	75	16779	5.219	ug/L	99
45) 1,1,2-Trichloroethane	8.05	97	12490	5.695	ug/L	96
46) Tetrachloroethene	8.21	164	9735	5.406	ug/L	91
48) 2-Hexanone	8.35	43	28841	10.708	ug/L	91
49) Dibromochloromethane	8.46	129	13702	5.553	ug/L	100
50) 1,2-Dibromoethane	8.57	107	12898	5.365	ug/L	90
51) Chlorobenzene	9.10	112	33630	5.637	ug/L	97
52) Ethylbenzene	9.23	91	51039	5.156	ug/L	100
53) m,p-Xylene	9.36	106	19112	5.069	ug/L	93
54) o-xylene	9.76	106	18596	5.044	ug/L	99
55) Styrene	9.78	104	29822	4.742	ug/L	97
56) Isopropylbenzene	10.15	105	47055	4.938	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.44	83	22633	5.791	ug/L #	98
59) 1,2,3-Trichloropropane	10.48	75	17685	5.755	ug/L	97
61) Bromoform	9.94	173	10468	5.944	ug/L #	94
62) 1,3-Dichlorobenzene	11.40	146	25247	5.696	ug/L	98
63) 1,4-Dichlorobenzene	11.49	146	27424	6.053	ug/L	97
65) 1,2-Dichlorobenzene	11.86	146	25432	5.726	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.64	75	4864	5.840	ug/L	94
67) 1,3,5-Trichlorobenzene	12.87	180	18434	5.426	ug/L	97
68) 1,2,4-trichlorobenzene	13.49	180	13781	4.760	ug/L	99
69) Naphthalene	13.73	128	35846	4.254	ug/L	97
70) 1,2,3-Trichlorobenzene	13.98	180	15025	4.871	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 6.019 ug/L

RT: 1.20 min Scan# 34

Delta R.T. -0.00 min

Lab File: VU033628.D

Acq: 08 Aug 2019 11:17

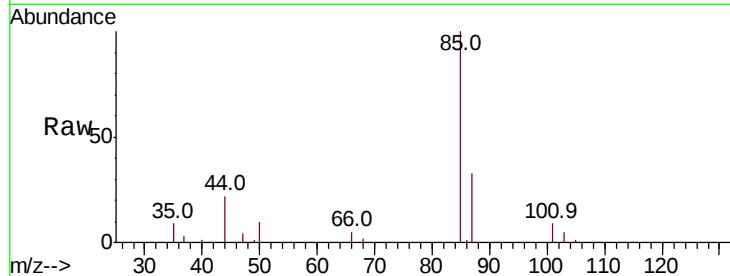
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 14806

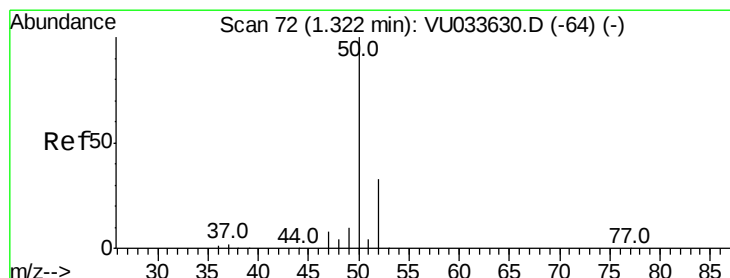
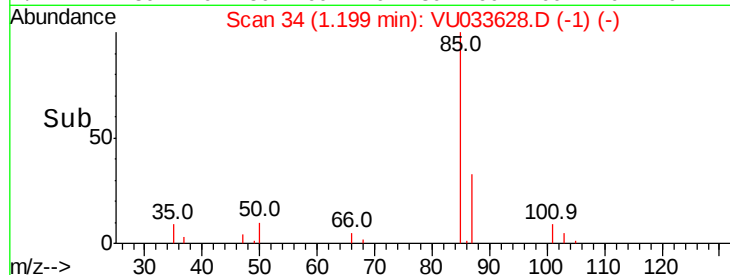
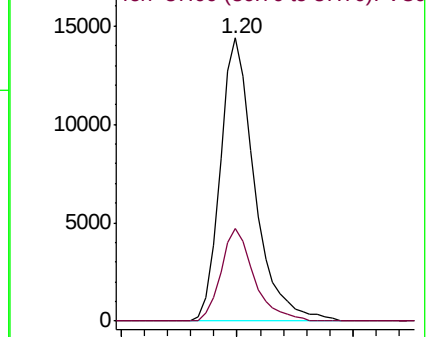
Ion Ratio Lower Upper

85 100

87 31.3 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VU0
Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 6.357 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU033628.D

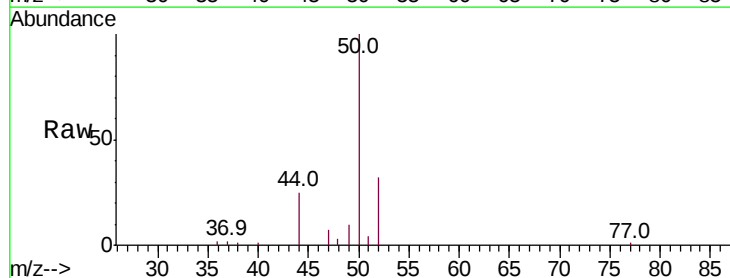
Acq: 08 Aug 2019 11:17

Tgt Ion: 50 Resp: 16948

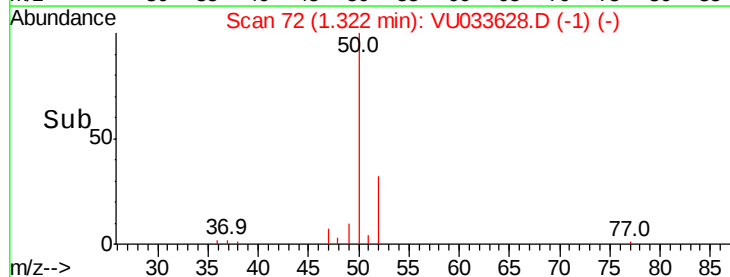
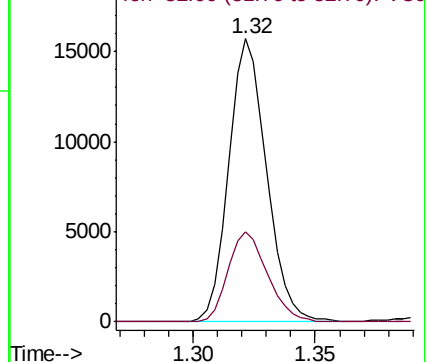
Ion Ratio Lower Upper

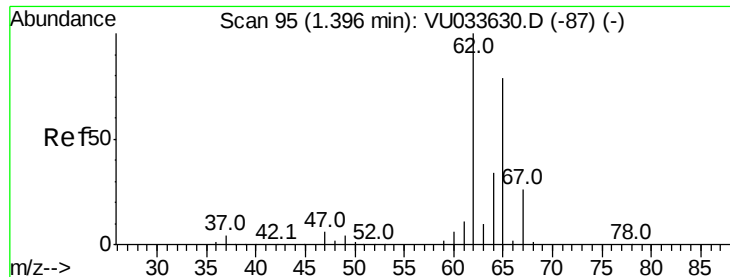
50 100

52 31.9 23.3 43.3



Abundance Ion 50.00 (49.70 to 50.70): VU0
Ion 52.00 (51.70 to 52.70): VU0





#5

Vinyl chloride

Concen: 5.749 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.00 min

Lab File: VU033628.D

Acq: 08 Aug 2019 11:17

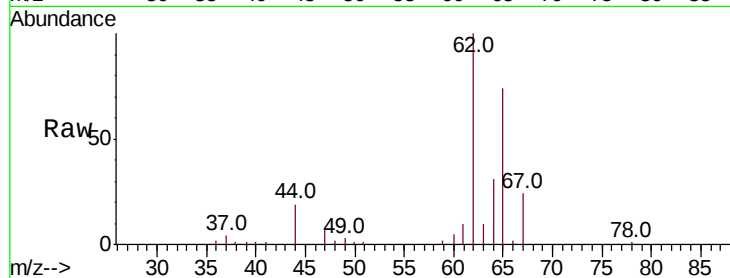
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 62 Resp: 16872

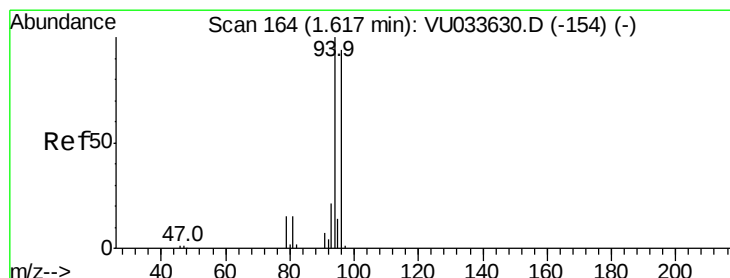
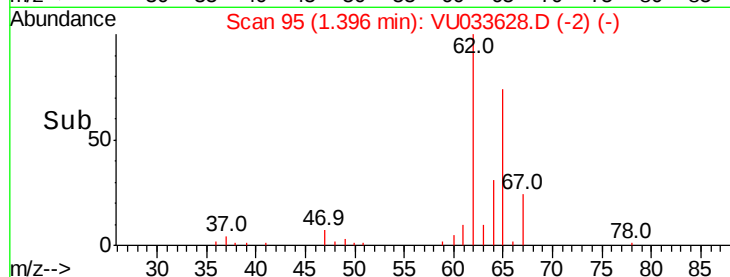
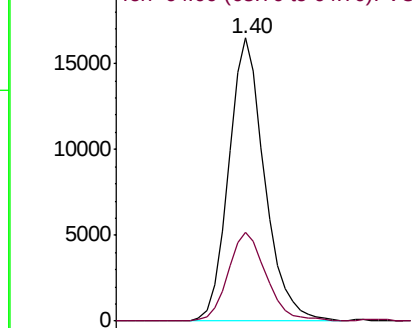
Ion Ratio Lower Upper

62 100

64 31.3 23.6 43.8



Abundance Ion 62.00 (61.70 to 62.70): VU0
Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 5.050 ug/L

RT: 1.62 min Scan# 166

Delta R.T. 0.01 min

Lab File: VU033628.D

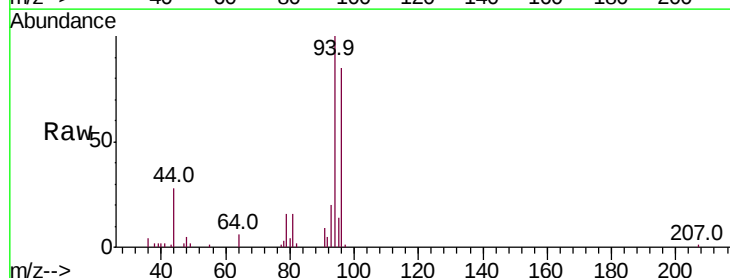
Acq: 08 Aug 2019 11:17

Tgt Ion: 94 Resp: 11157

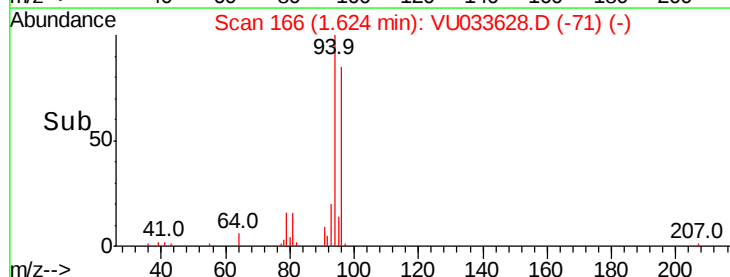
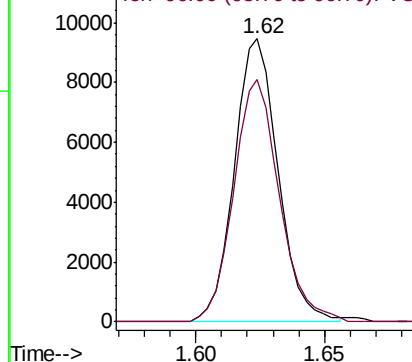
Ion Ratio Lower Upper

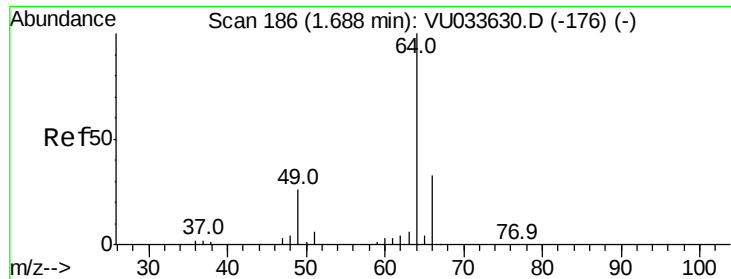
94 100

96 85.5 65.8 122.2



Abundance Ion 94.00 (93.70 to 94.70): VU0
Ion 96.00 (95.70 to 96.70): VU0

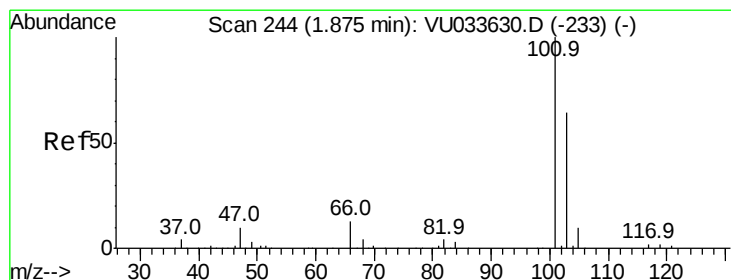
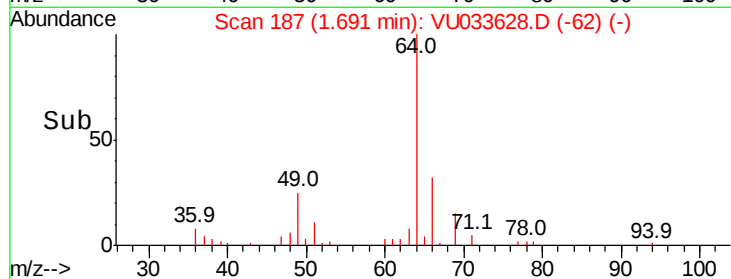
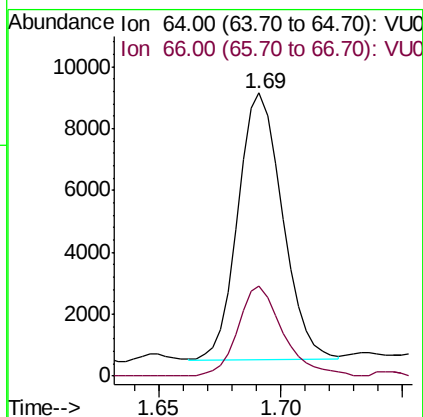
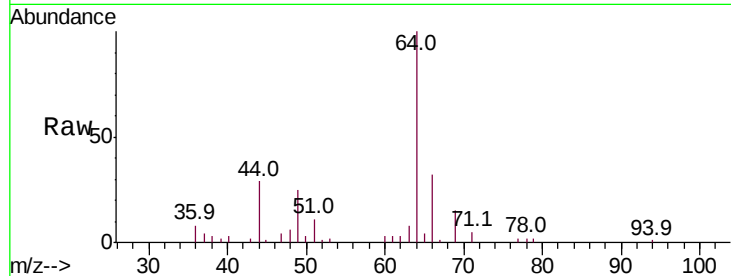




#8
Chloroethane
Concen: 4.760 ug/L
RT: 1.69 min Scan# 187
Delta R.T. 0.00 min
Lab File: VU033628.D
Acq: 08 Aug 2019 11:17

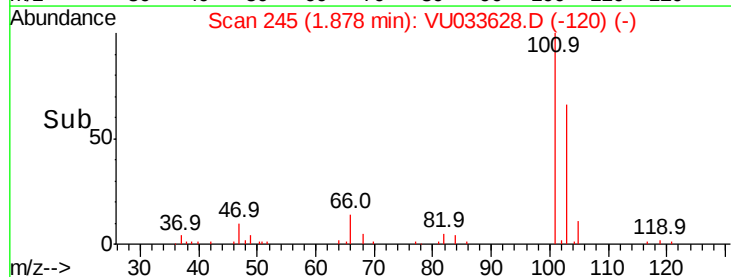
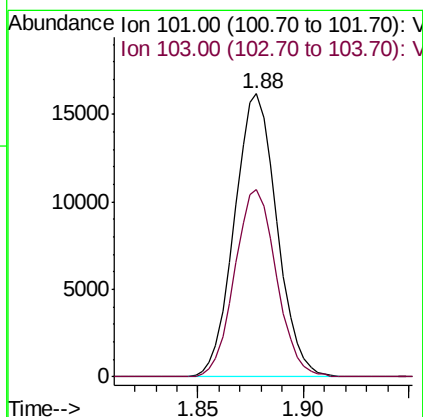
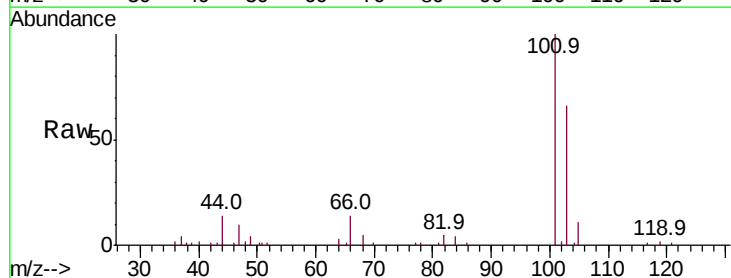
Instrument :
MSVOA_U
ClientSampled :

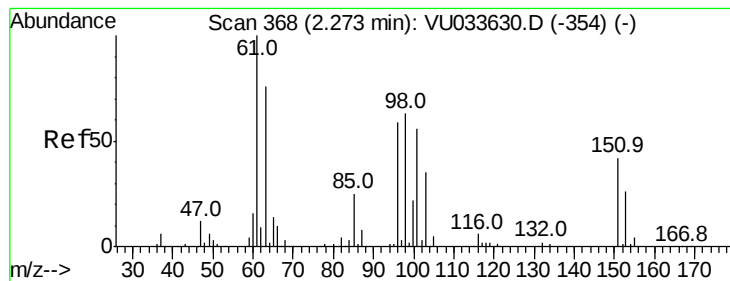
Tot Ion: 64 Resp: 10933
Ion Ratio Lower Upper
64 100
66 31.6 23.0 42.8



#9
Trichlorofluoromethane
Concen: 5.937 ug/L
RT: 1.88 min Scan# 245
Delta R.T. 0.00 min
Lab File: VU033628.D
Acq: 08 Aug 2019 11:17

Tgt Ion:101 Resp: 22657
Ion Ratio Lower Upper
101 100
103 64.8 51.3 76.9





#10

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

Concen: 6.088 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.00 min

Lab File: VU033628.D

Acq: 08 Aug 2019 11:17

Instrument :

MSVOA_U

ClientSampleId :

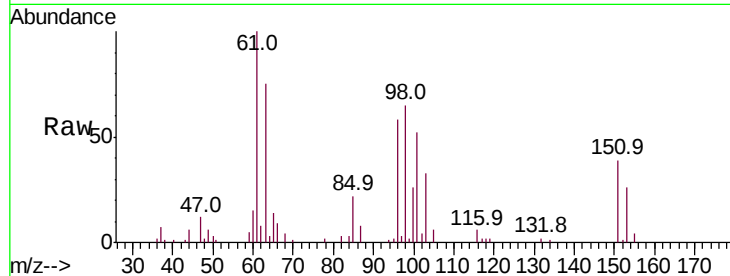
Tot Ion:101 Resp: 11847

Ion Ratio Lower Upper

101 100

85 42.0 34.8 52.2

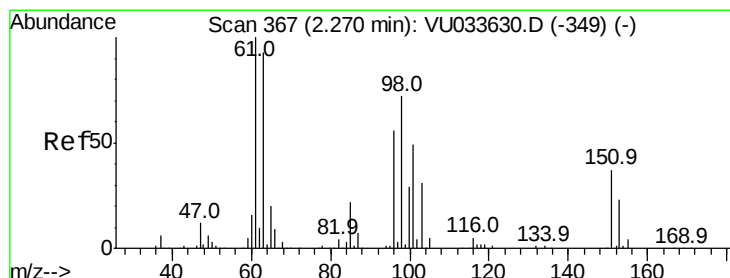
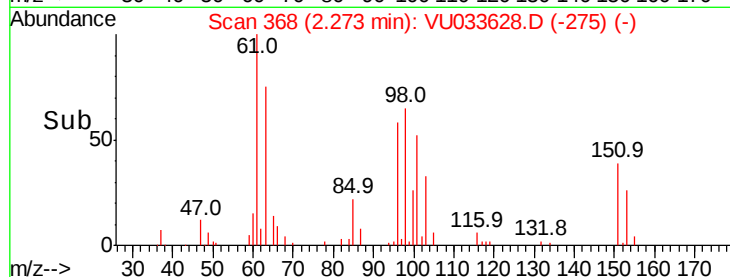
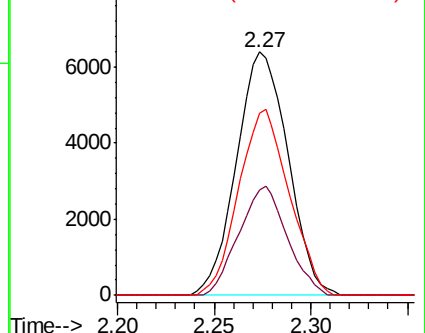
151 75.0 60.4 90.6



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: 5.913 ug/L

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU033628.D

Acq: 08 Aug 2019 11:17

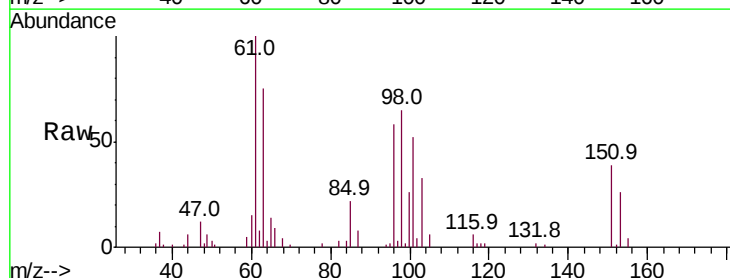
Tgt Ion: 96 Resp: 11110

Ion Ratio Lower Upper

96 100

61 171.7 124.0 230.2

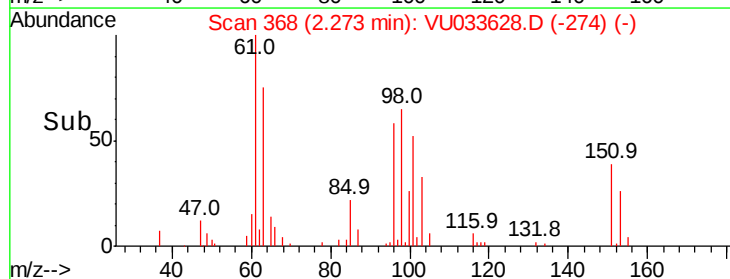
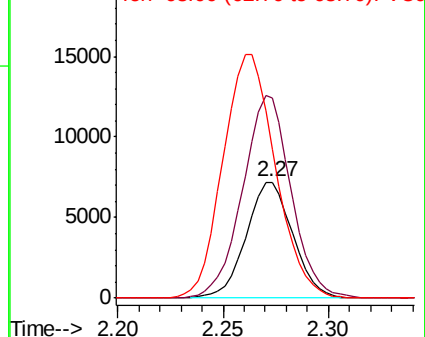
63 128.2 114.9 213.5

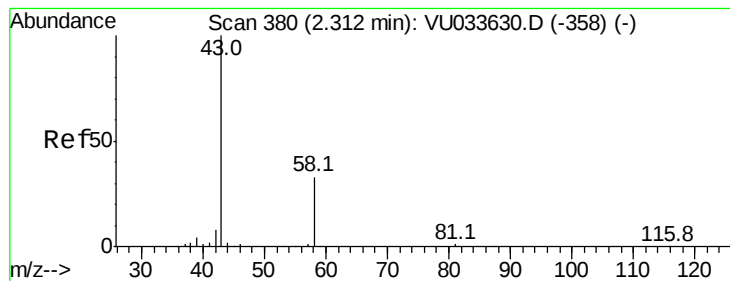


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 12.734 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.01 min

Lab File: VU033628.D

Acq: 08 Aug 2019 11:17

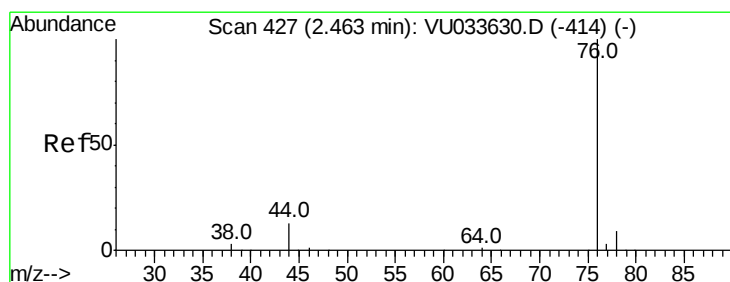
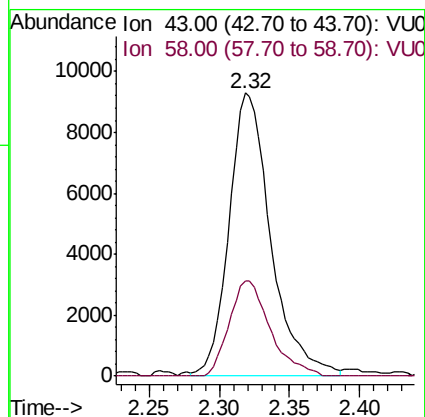
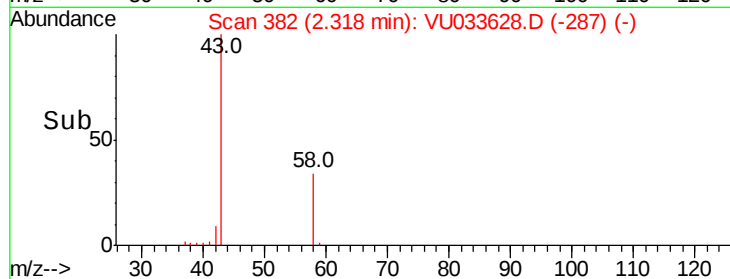
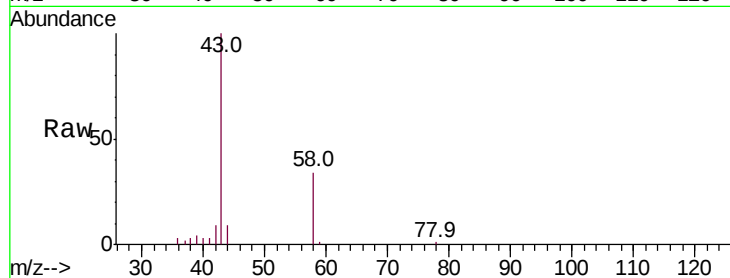
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 19300

Ion Ratio Lower Upper

43 100

58 32.9 0.0 65.0



#14

Carbon disulfide

Concen: 5.712 ug/L

RT: 2.47 min Scan# 428

Delta R.T. 0.00 min

Lab File: VU033628.D

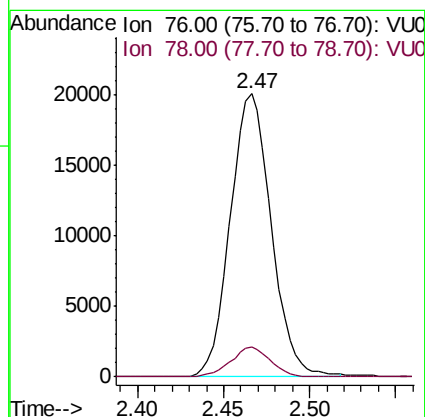
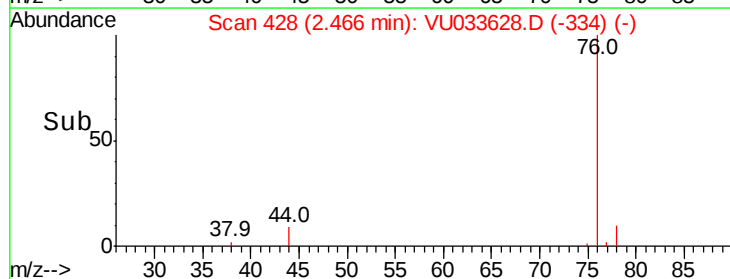
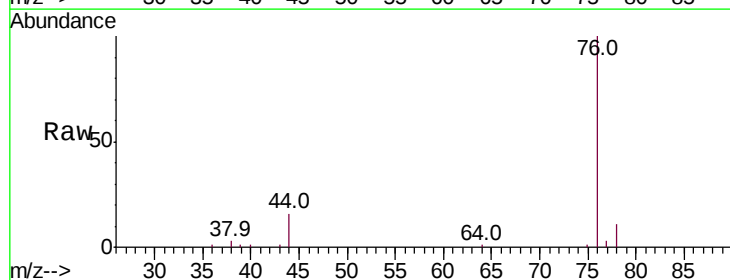
Acq: 08 Aug 2019 11:17

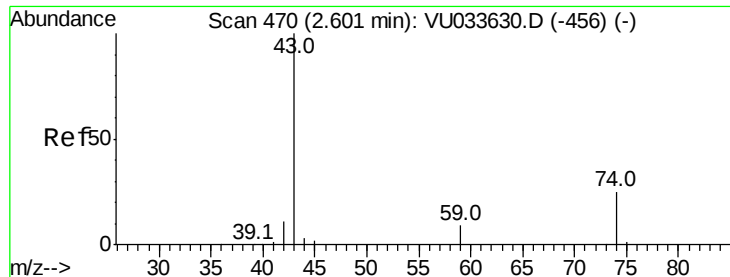
Tgt Ion: 76 Resp: 33196

Ion Ratio Lower Upper

76 100

78 10.5 7.1 10.7





#15

Methyl Acetate

Concen: 5.495 ug/L

RT: 2.61 min Scan# 472

Delta R.T. 0.01 min

Lab File: VU033628.D

Acq: 08 Aug 2019 11:17

Instrument :

MSVOA_U

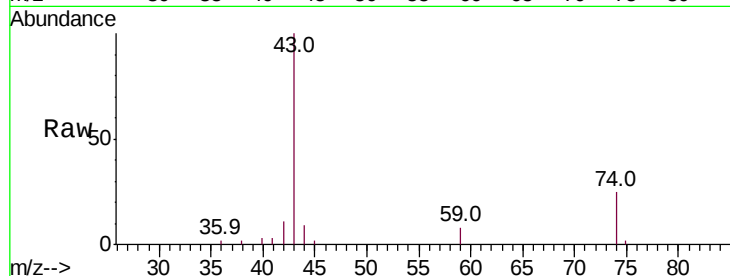
ClientSampled :

Tot Ion: 43 Resp: 13453

Ion Ratio Lower Upper

43 100

74 24.4 19.5 29.3



Abundance Ion 43.00 (42.70 to 43.70): VU033628.D (-472) (-)

Ion 74.00 (73.70 to 74.70): VU033628.D (-472) (-)

2.61

8000

6000

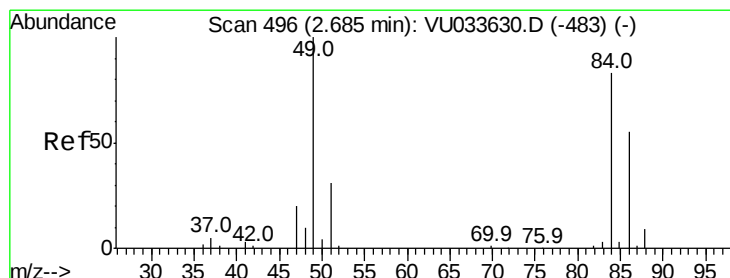
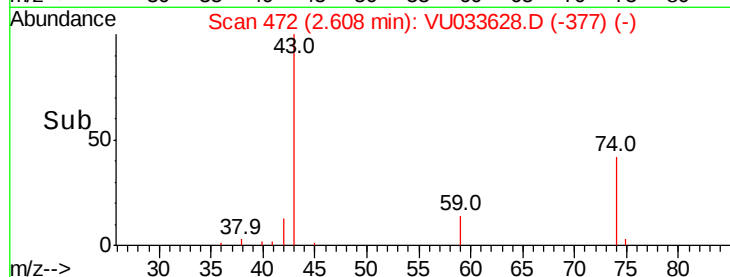
4000

2000

0

Time-->

2.55 2.60 2.65 2.70



#16

Methylene chloride

Concen: 6.064 ug/L

RT: 2.69 min Scan# 497

Delta R.T. 0.00 min

Lab File: VU033628.D

Acq: 08 Aug 2019 11:17

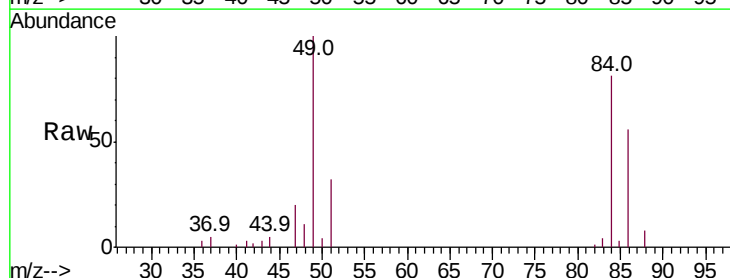
Tgt Ion: 84 Resp: 13334

Ion Ratio Lower Upper

84 100

86 68.6 46.0 85.4

49 123.0 84.4 156.8



Abundance Ion 84.00 (83.70 to 84.70): VU033628.D (-497) (-)

Ion 86.00 (85.70 to 86.70): VU033628.D (-497) (-)

Ion 49.00 (48.70 to 49.70): VU033628.D (-497) (-)

10000

8000

6000

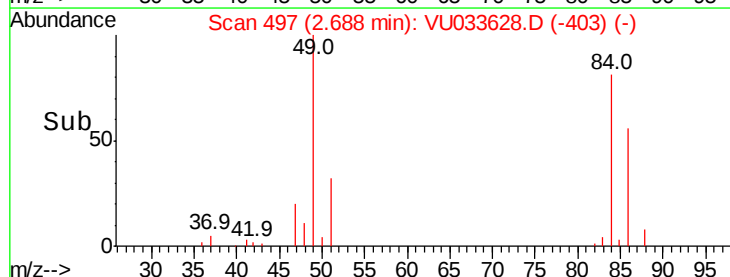
4000

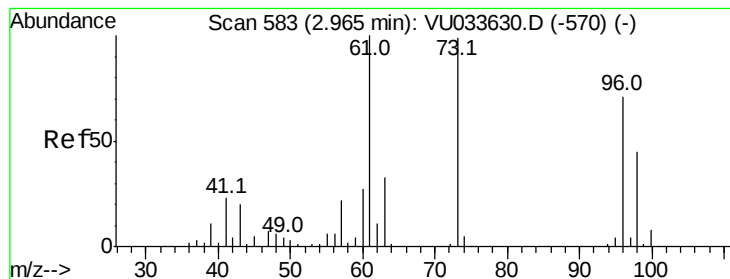
2000

0

Time-->

2.65 2.70 2.75





#17

trans-1,2-Dichloroethene

Concen: 5.626 ug/L

RT: 2.97 min Scan# 584

Delta R.T. 0.00 min

Lab File: VU033628.D

Acq: 08 Aug 2019 11:17

Instrument :

MSVOA_U

ClientSampled :

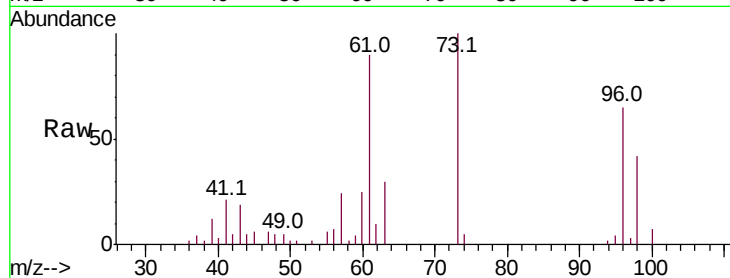
Tot Ion: 96 Resp: 11298

Ion Ratio Lower Upper

96 100

61 137.7 98.7 183.3

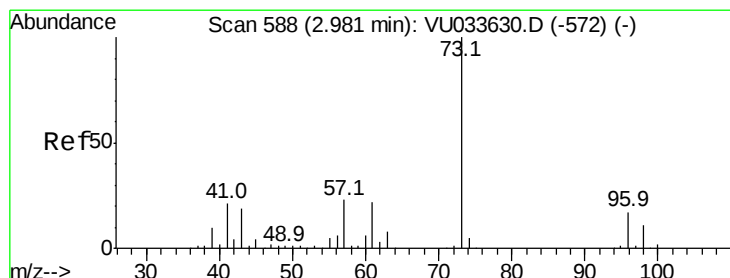
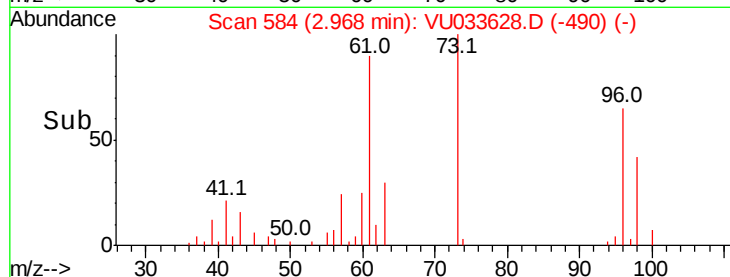
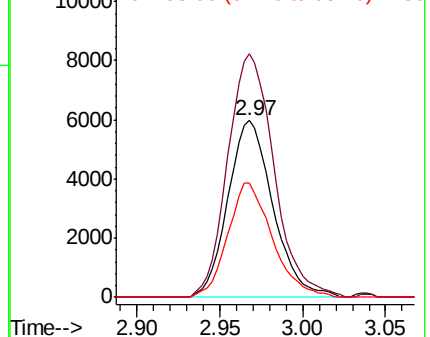
98 65.0 44.6 82.8



Abundance Ion 96.00 (95.70 to 96.70): VU033630.D (-570) (-)

Ion 61.00 (60.70 to 61.70): VU033630.D (-570) (-)

Ion 98.00 (97.70 to 98.70): VU033630.D (-570) (-)



#18

Methyl tert-butyl Ether

Concen: 5.429 ug/L

RT: 2.98 min Scan# 589

Delta R.T. 0.00 min

Lab File: VU033628.D

Acq: 08 Aug 2019 11:17

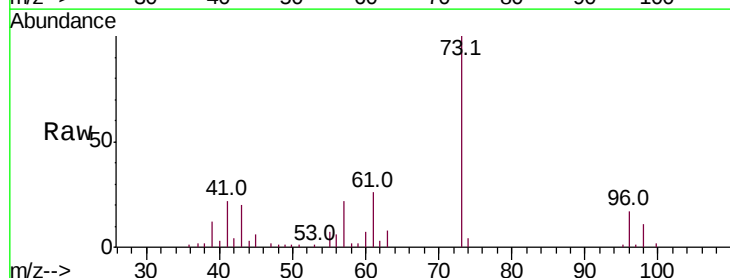
Tgt Ion: 73 Resp: 33790

Ion Ratio Lower Upper

73 100

43 19.4 15.5 23.3

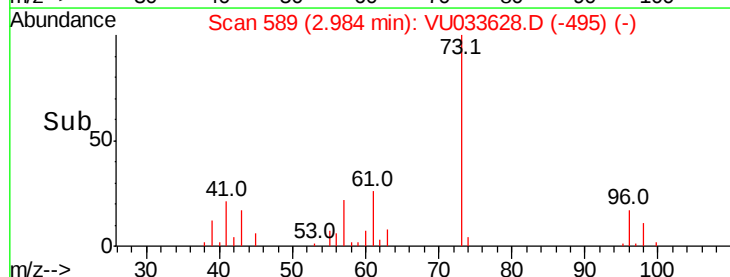
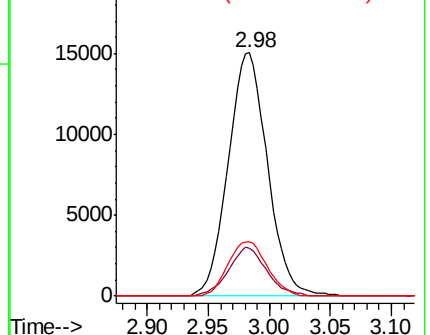
57 22.3 18.0 27.0

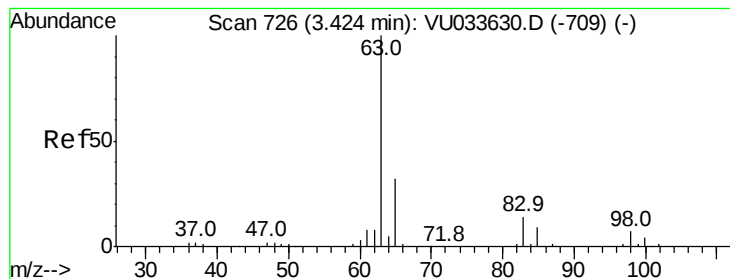


Abundance Ion 73.00 (72.70 to 73.70): VU033630.D (-572) (-)

Ion 43.00 (42.70 to 43.70): VU033630.D (-572) (-)

Ion 57.00 (56.70 to 57.70): VU033630.D (-572) (-)





#19

1,1-Dichloroethane

Concen: 5.943 ug/L

RT: 3.43 min Scan# 727

Delta R.T. 0.00 min

Lab File: VU033628.D

Acq: 08 Aug 2019 11:17

Instrument :

MSVOA_U

ClientSampleId :

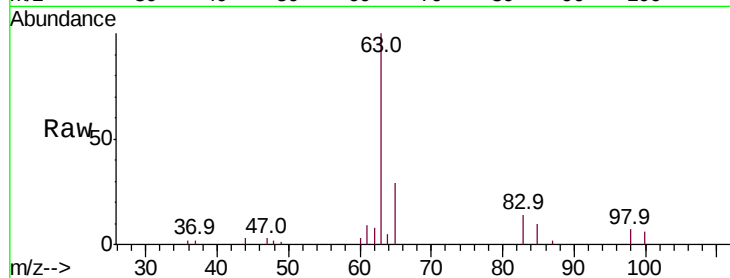
Tot Ion: 63 Resp: 22598

Ion Ratio Lower Upper

63 100

65 29.4 22.5 41.9

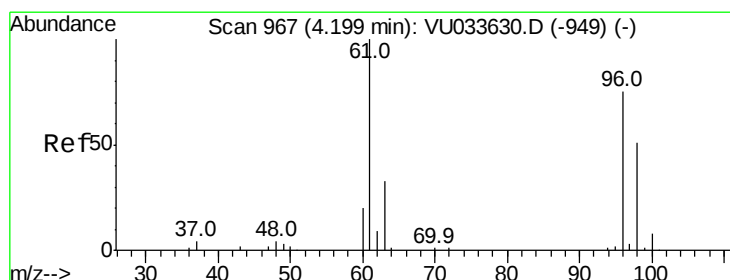
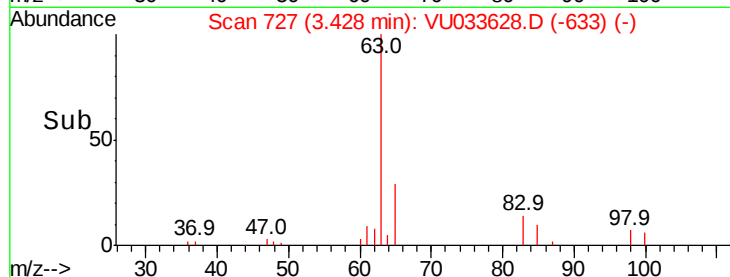
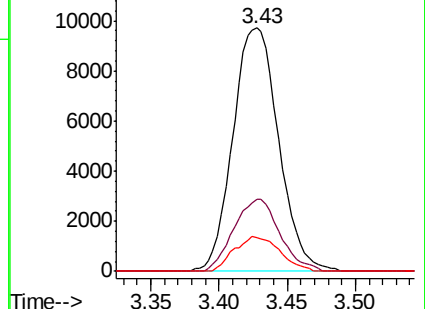
83 14.0 9.4 17.6



Abundance Ion 63.00 (62.70 to 63.70): VU033630.D (-709) (-)

Ion 65.00 (64.70 to 65.70): VU033630.D (-709) (-)

Ion 83.00 (82.70 to 83.70): VU033630.D (-709) (-)



#20

cis-1,2-Dichloroethene

Concen: 5.361 ug/L

RT: 4.21 min Scan# 969

Delta R.T. 0.01 min

Lab File: VU033628.D

Acq: 08 Aug 2019 11:17

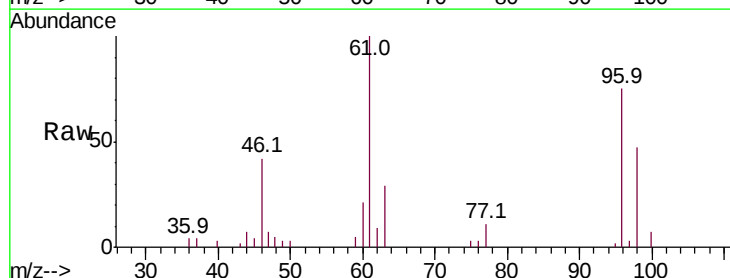
Tgt Ion: 96 Resp: 11901

Ion Ratio Lower Upper

96 100

61 132.8 93.0 172.8

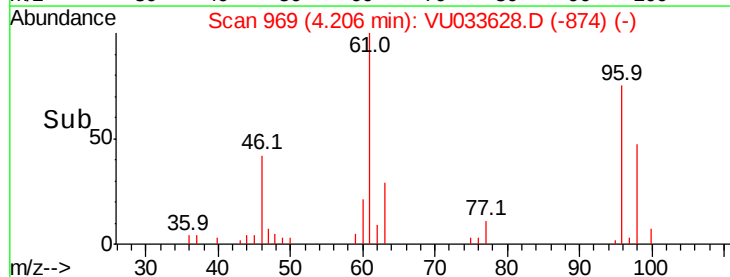
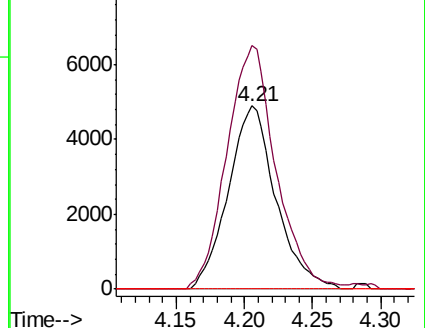
68 0.0 0.0 0.0

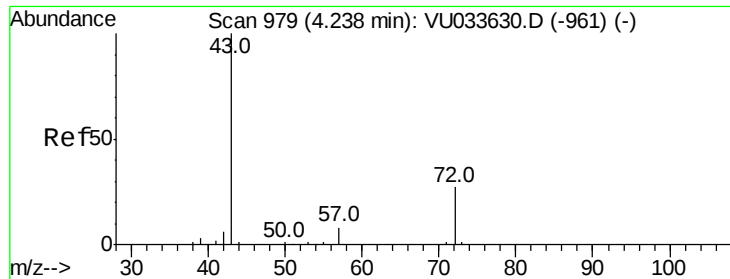


Abundance Ion 96.00 (95.70 to 96.70): VU033630.D (-949) (-)

Ion 61.00 (60.70 to 61.70): VU033630.D (-949) (-)

Ion 68.00 (67.70 to 68.70): VU033630.D (-949) (-)





#22

2-Butanone

Concen: 9.924 ug/L

RT: 4.25 min Scan# 984

Delta R.T. 0.02 min

Lab File: VU033628.D

Acq: 08 Aug 2019 11:17

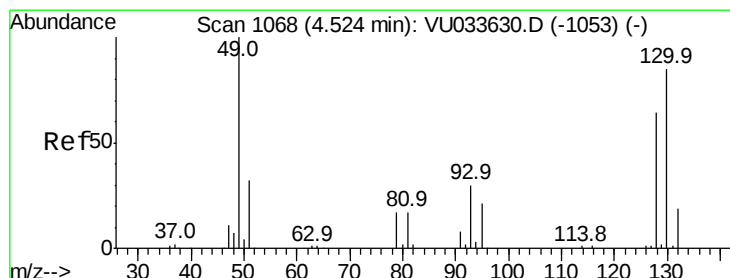
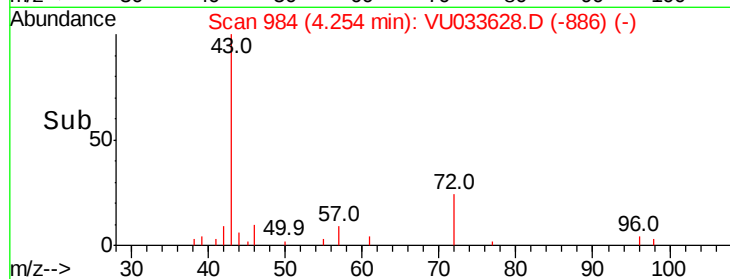
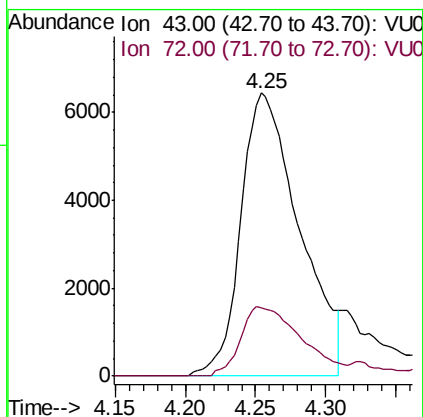
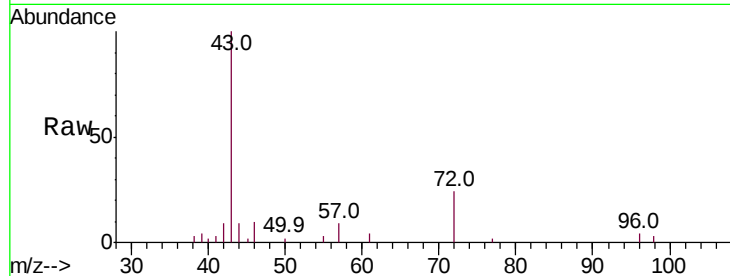
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 18687

Ion Ratio Lower Upper

43 100

72 25.5 14.4 43.4



#23

Bromochloromethane

Concen: 5.907 ug/L

RT: 4.53 min Scan# 1070

Delta R.T. 0.01 min

Lab File: VU033628.D

Acq: 08 Aug 2019 11:17

Tgt Ion:128 Resp: 6861

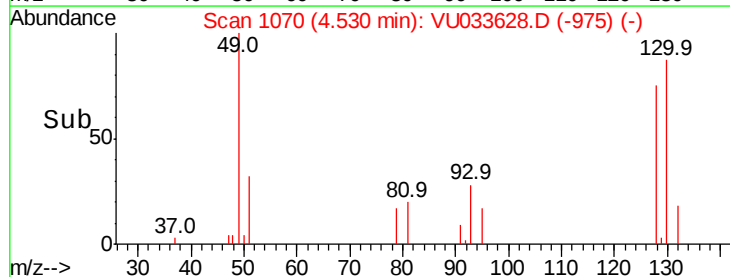
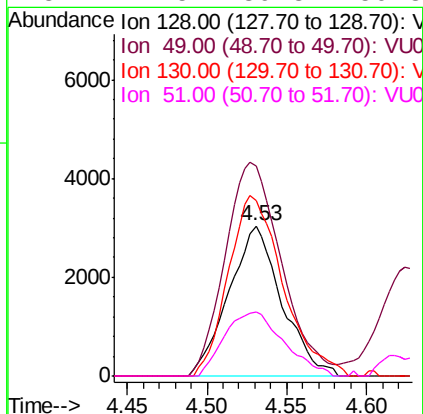
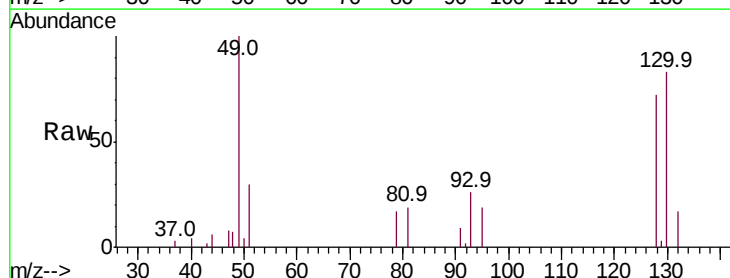
Ion Ratio Lower Upper

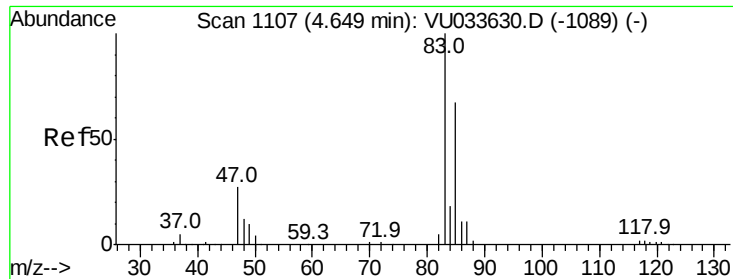
128 100

49 139.7 109.8 204.0

130 116.6 93.0 172.8

51 42.5 39.8 59.8

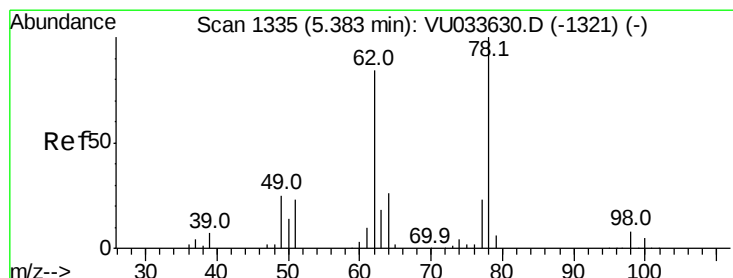
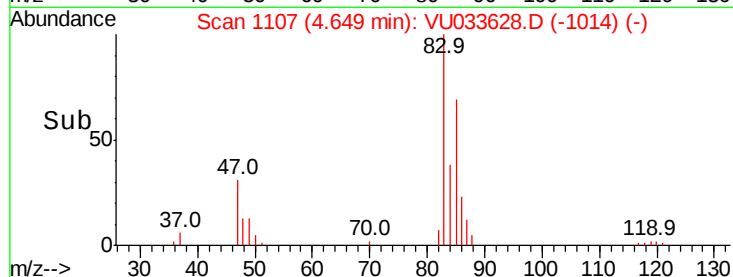
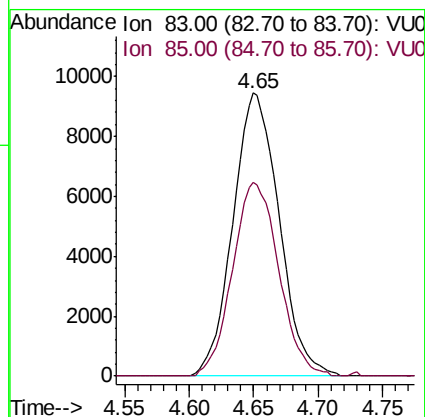
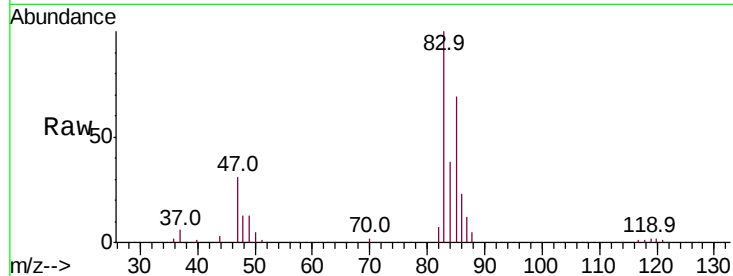




#25
Chloroform
Concen: 5.975 ug/L
RT: 4.65 min Scan# 1107
Delta R.T. -0.00 min
Lab File: VU033628.D
Acq: 08 Aug 2019 11:17

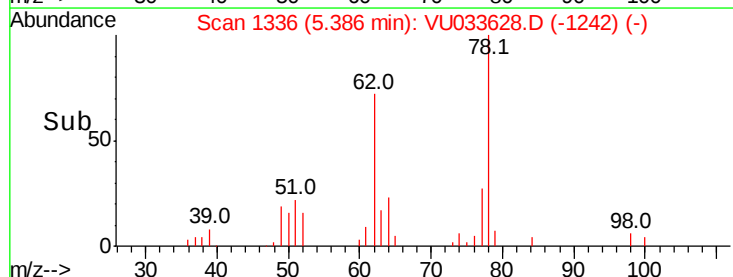
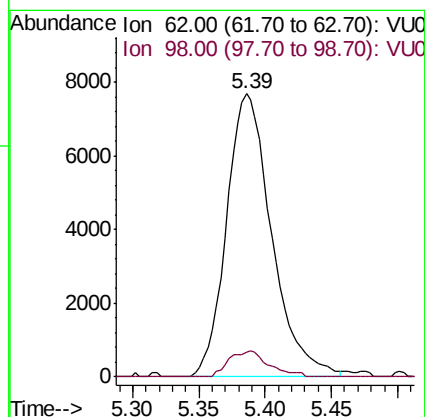
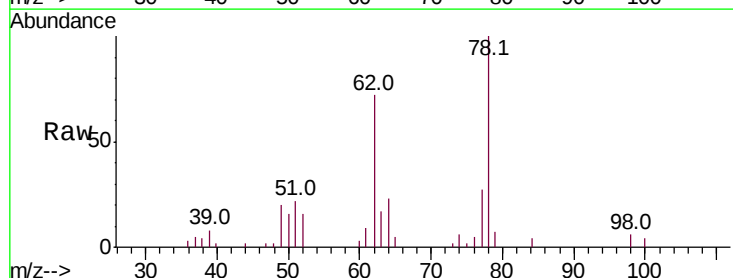
Instrument :
MSVOA_U
ClientSampleId :

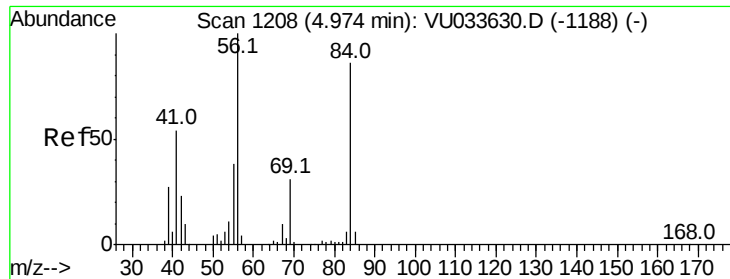
Tot Ion: 83 Resp: 23573
Ion Ratio Lower Upper
83 100
85 68.6 47.2 87.6



#27
1,2-Dichloroethane
Concen: 5.919 ug/L
RT: 5.39 min Scan# 1336
Delta R.T. 0.00 min
Lab File: VU033628.D
Acq: 08 Aug 2019 11:17

Tgt Ion: 62 Resp: 18159
Ion Ratio Lower Upper
62 100
98 8.6 7.4 11.2





#29

Cyclohexane

Concen: 5.104 ug/L

RT: 4.97 min Scan# 1207

Delta R.T. -0.00 min

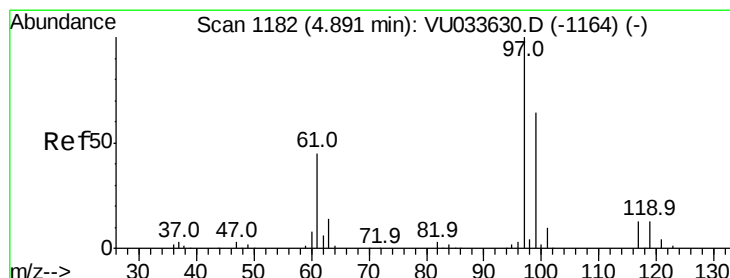
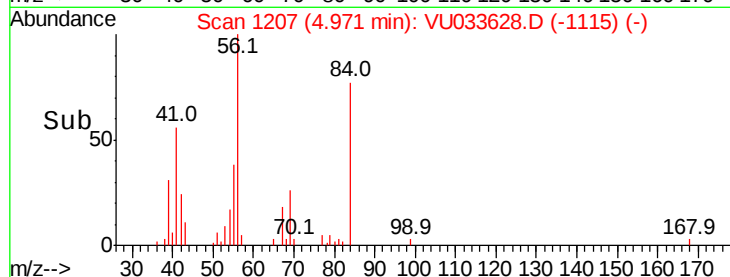
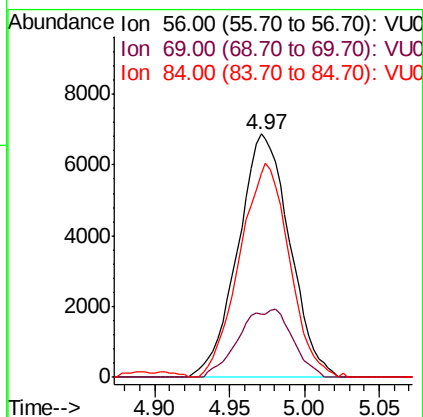
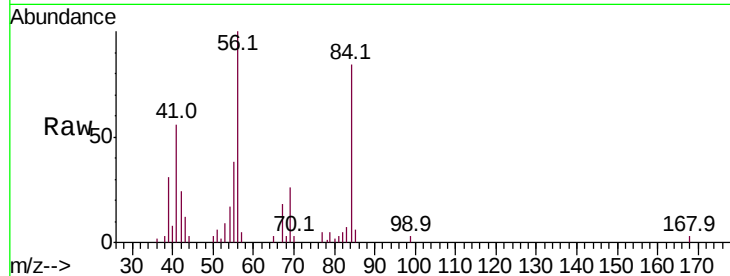
Lab File: VU033628.D

Acq: 08 Aug 2019 11:17

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 56 Resp: 16534

Ion	Ratio	Lower	Upper
56	100		
69	13.7	25.2	37.8#
84	84.3	70.2	105.2



#30

1,1,1-Trichloroethane

Concen: 5.830 ug/L

RT: 4.89 min Scan# 1183

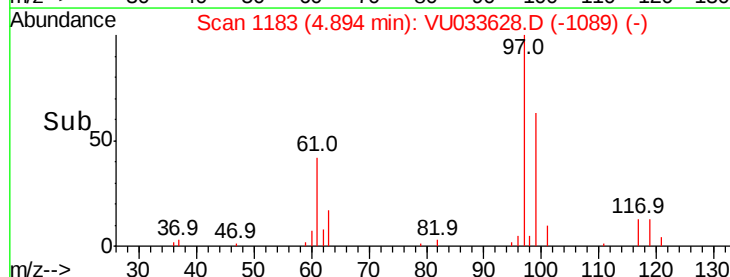
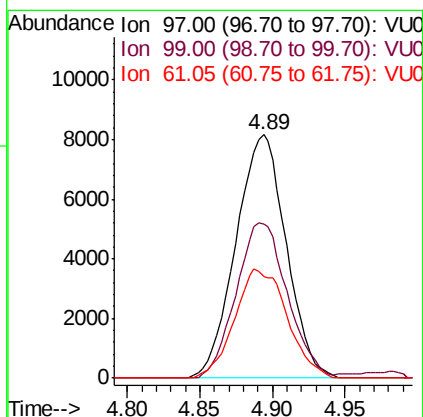
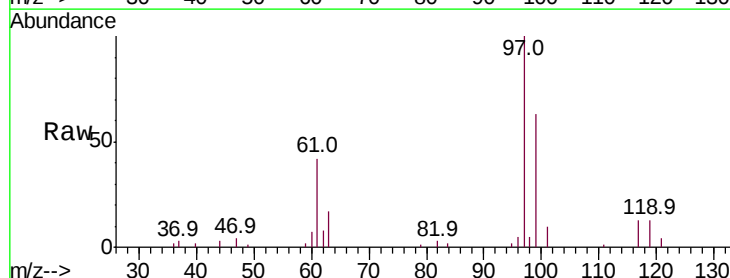
Delta R.T. 0.00 min

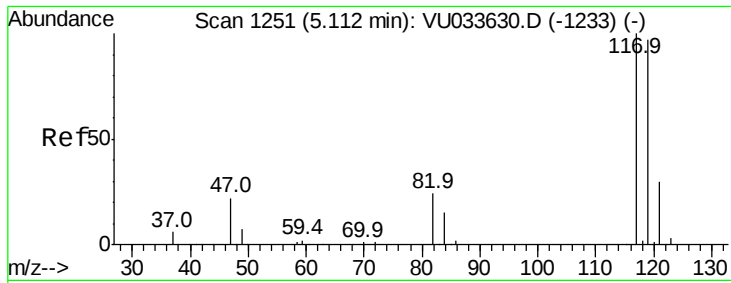
Lab File: VU033628.D

Acq: 08 Aug 2019 11:17

Tgt Ion: 97 Resp: 19697

Ion	Ratio	Lower	Upper
97	100		
99	65.0	51.4	77.2
61	29.7	36.2	54.4#

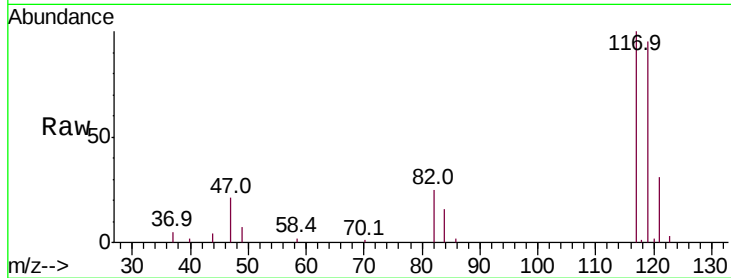




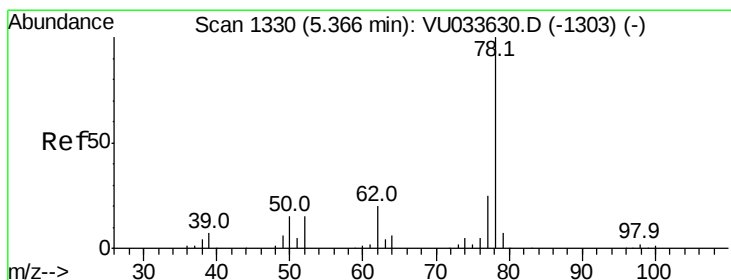
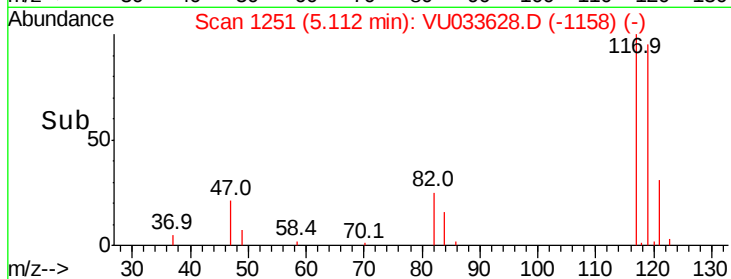
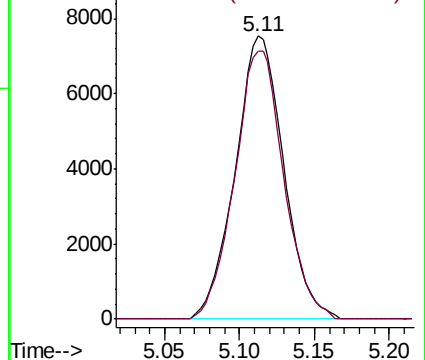
#31
Carbon tetrachloride
Concen: 5.725 ug/L
RT: 5.11 min Scan# 1251
Delta R.T. -0.00 min
Lab File: VU033628.D
Acq: 08 Aug 2019 11:17

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:117 Resp: 17010
Ion Ratio Lower Upper
117 100
119 95.8 77.2 115.8

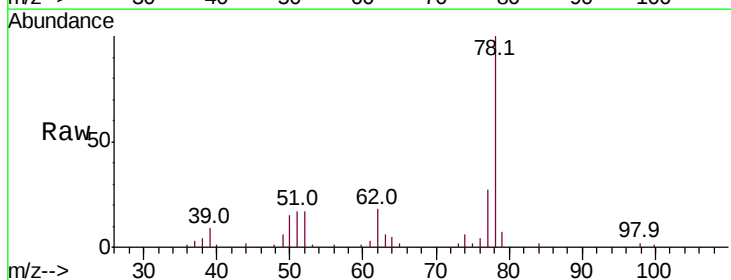


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V

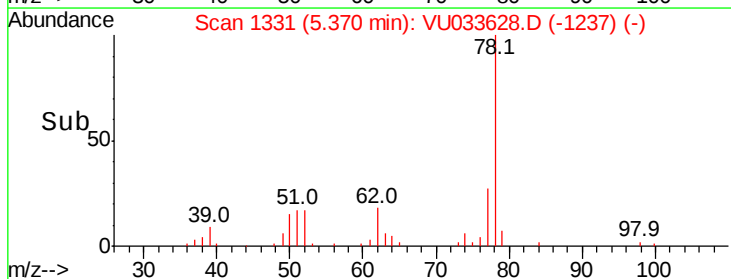
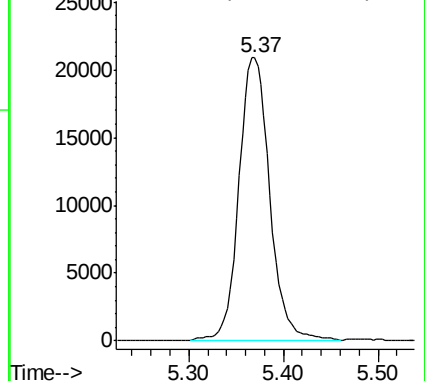


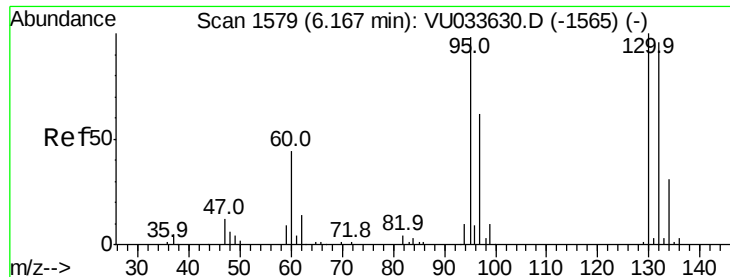
#33
Benzene
Concen: 5.568 ug/L
RT: 5.37 min Scan# 1331
Delta R.T. 0.00 min
Lab File: VU033628.D
Acq: 08 Aug 2019 11:17

Tgt Ion: 78 Resp: 47592



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 5.612 ug/L

RT: 6.17 min Scan# 1579

Delta R.T. -0.00 min

Lab File: VU033628.D

Acq: 08 Aug 2019 11:17

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 12362

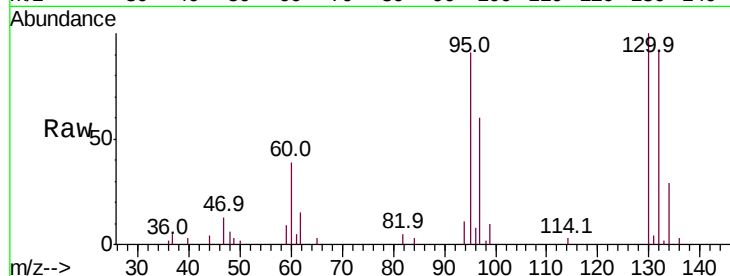
Ion Ratio Lower Upper

95 100

97 65.8 44.4 82.5

132 101.4 69.1 128.3

130 109.9 71.7 133.3

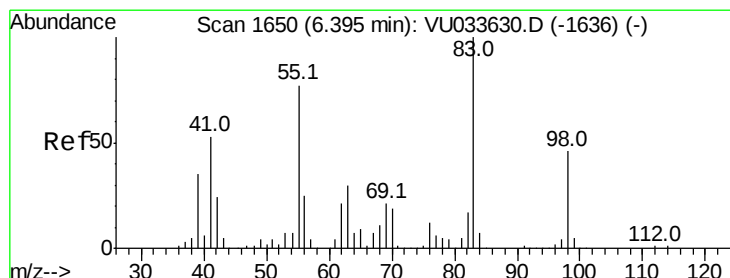
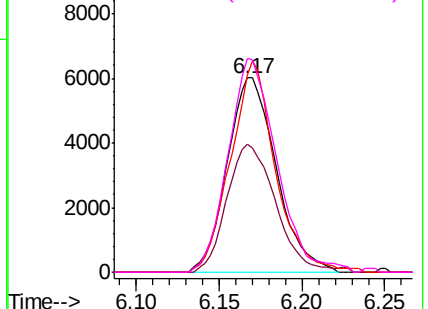
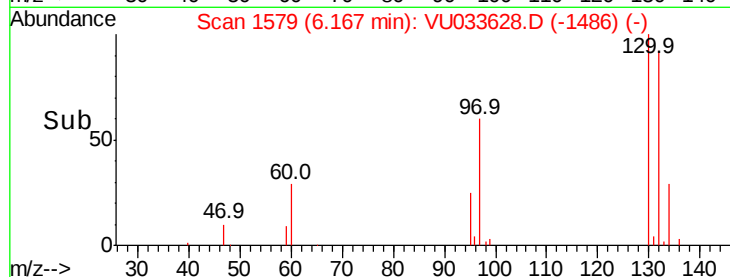


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 5.053 ug/L

RT: 6.40 min Scan# 1650

Delta R.T. -0.00 min

Lab File: VU033628.D

Acq: 08 Aug 2019 11:17

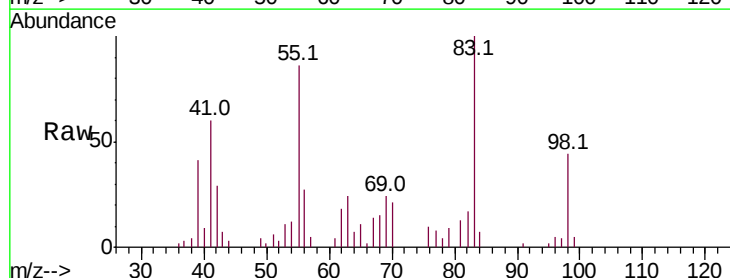
Tgt Ion: 83 Resp: 17450

Ion Ratio Lower Upper

83 100

55 79.9 61.3 91.9

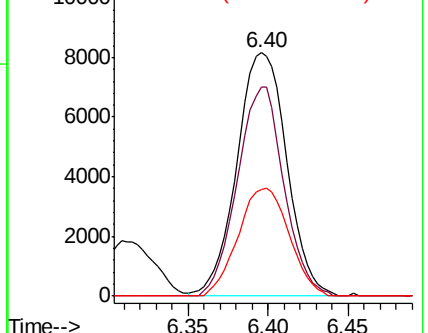
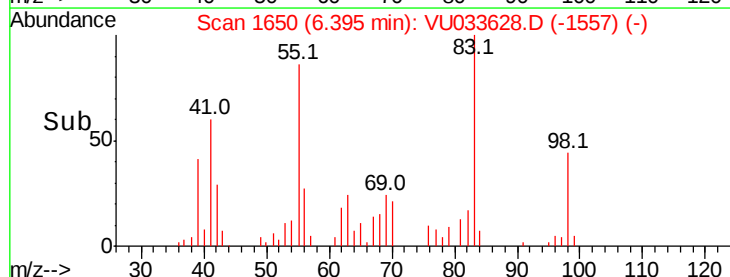
98 45.2 36.7 55.1

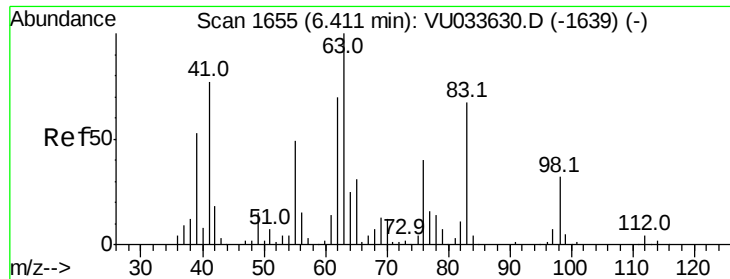


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

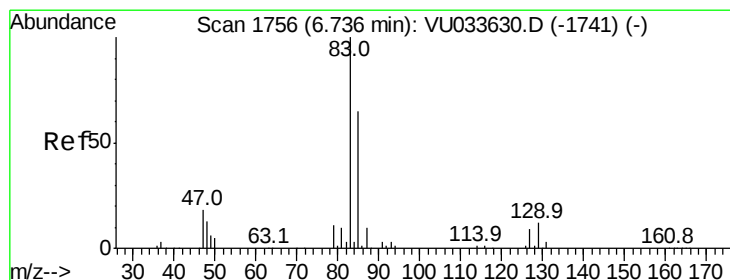
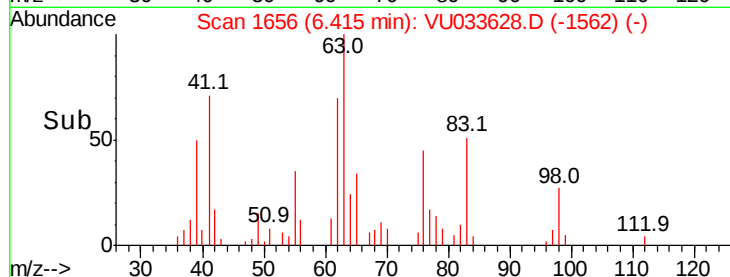
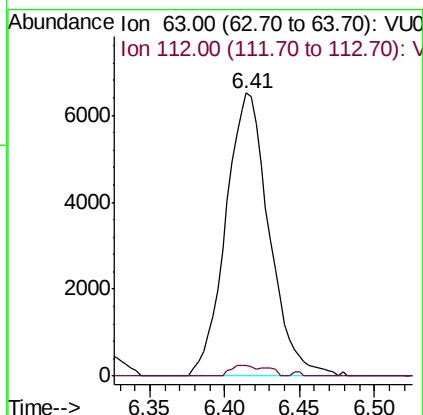
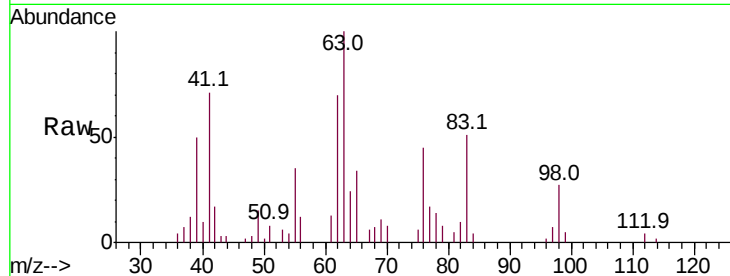




#37
 1,2-Dichloropropane
 Concen: 5.625 ug/L
 RT: 6.41 min Scan# 1656
 Delta R.T. 0.00 min
 Lab File: VU033628.D
 Acq: 08 Aug 2019 11:17

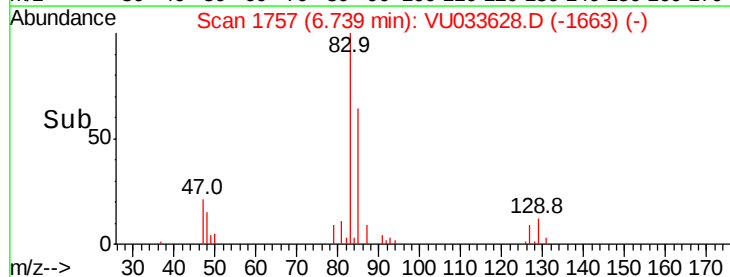
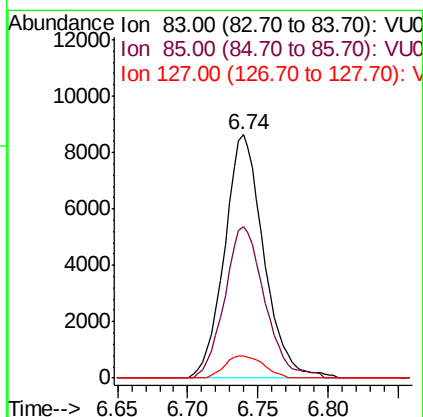
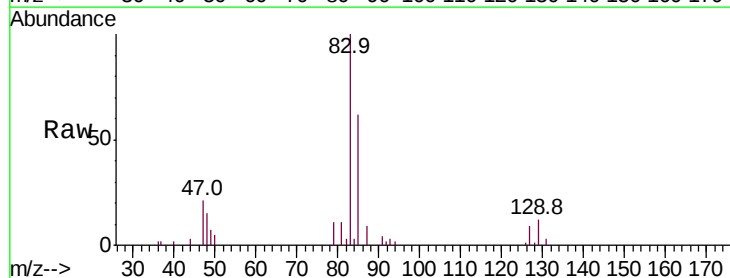
Instrument :
 MSVOA_U
 ClientSampleId :

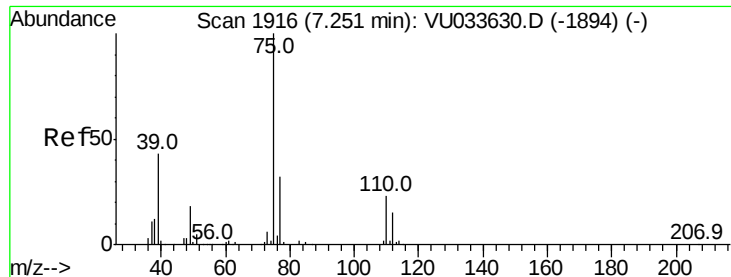
Tot Ion: 63 Resp: 13146
 Ion Ratio Lower Upper
 63 100
 112 2.1 3.0 4.6#



#38
 Bromodichloromethane
 Concen: 5.690 ug/L
 RT: 6.74 min Scan# 1757
 Delta R.T. 0.00 min
 Lab File: VU033628.D
 Acq: 08 Aug 2019 11:17

Tgt Ion: 83 Resp: 16781
 Ion Ratio Lower Upper
 83 100
 85 62.4 45.6 84.6
 127 8.9 7.0 10.4

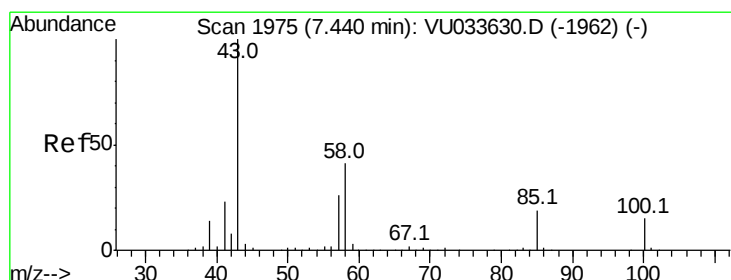
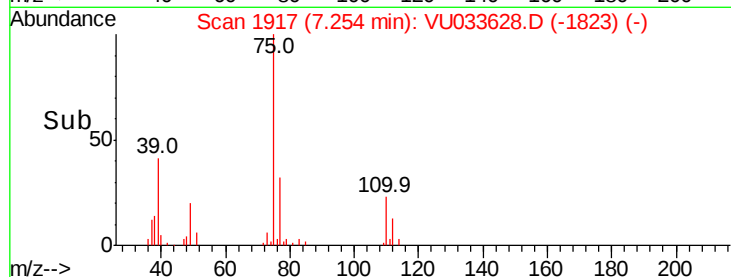
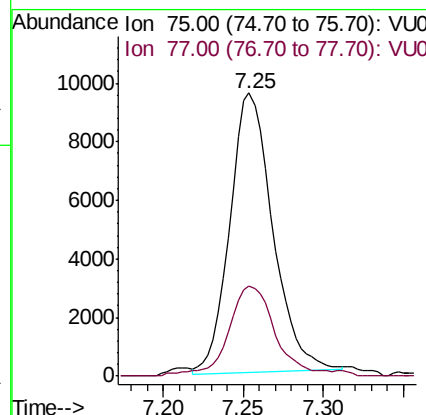
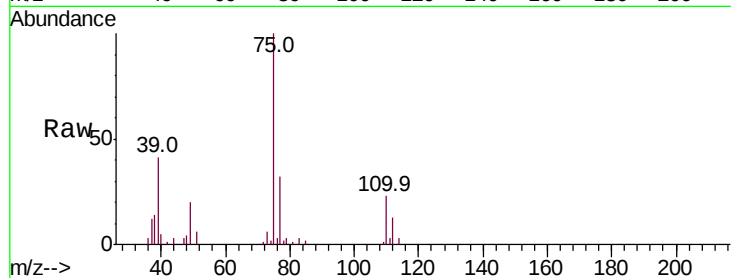




#39
 cis-1,3-Dichloropropene
 Concen: 4.898 ug/L
 RT: 7.25 min Scan# 1917
 Delta R.T. 0.00 min
 Lab File: VU033628.D
 Acq: 08 Aug 2019 11:17

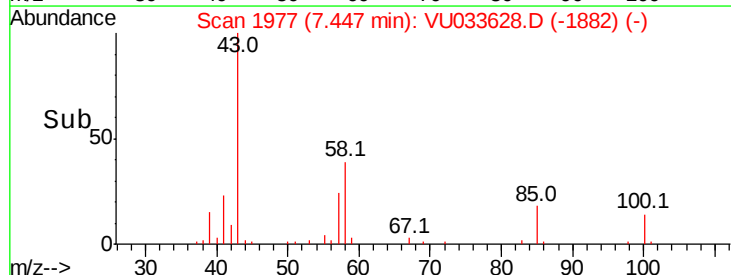
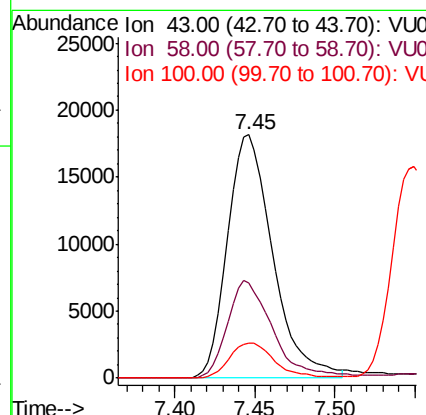
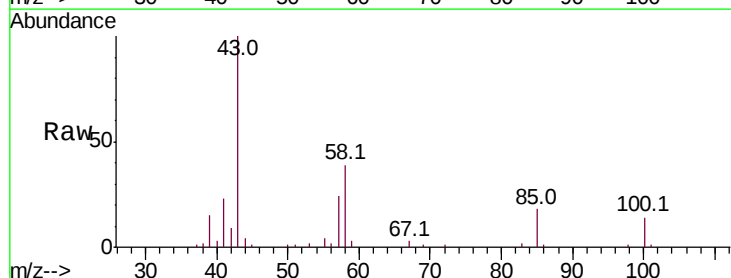
Instrument :
 MSVOA_U
 ClientSampled :

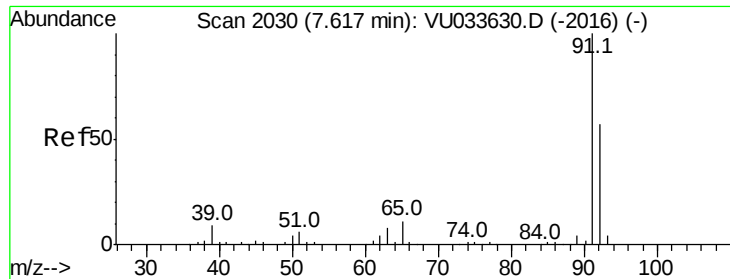
Tot Ion: 75 Resp: 17440
 Ion Ratio Lower Upper
 75 100
 77 31.9 22.5 41.9



#40
 4-Methyl-2-pentanone
 Concen: 10.540 ug/L
 RT: 7.45 min Scan# 1977
 Delta R.T. 0.01 min
 Lab File: VU033628.D
 Acq: 08 Aug 2019 11:17

Tgt Ion: 43 Resp: 35363
 Ion Ratio Lower Upper
 43 100
 58 39.9 32.7 49.1
 100 14.2 12.2 18.4





#42

Toluene

Concen: 5.354 ug/L

RT: 7.62 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VU033628.D

Acq: 08 Aug 2019 11:17

Instrument :

MSVOA_U

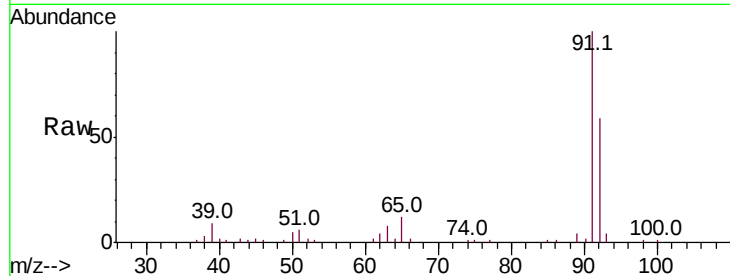
ClientSampled :

Tot Ion: 91 Resp: 48889

Ion Ratio Lower Upper

91 100

92 58.9 39.6 73.6



Abundance Ion 91.00 (90.70 to 91.70): VU033630.D (-2016) (-)

Ion 92.00 (91.70 to 92.70): VU033630.D (-2016) (-)

7.62

30000

25000

20000

15000

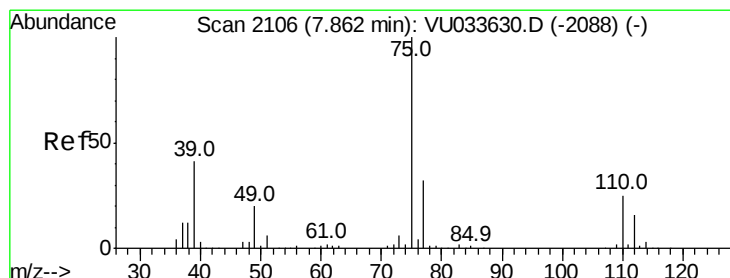
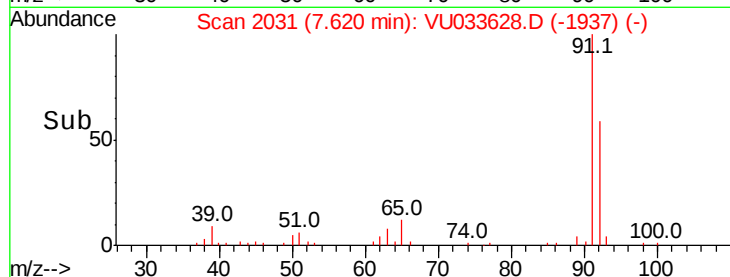
10000

5000

0

7.55 7.60 7.65 7.70

Time-->



#44

trans-1,3-Dichloropropene

Concen: 5.219 ug/L

RT: 7.87 min Scan# 2108

Delta R.T. 0.01 min

Lab File: VU033628.D

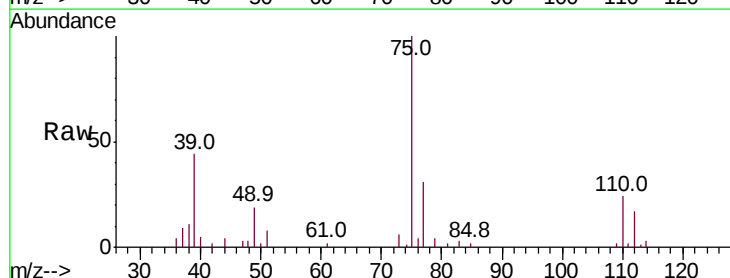
Acq: 08 Aug 2019 11:17

Tgt Ion: 75 Resp: 16779

Ion Ratio Lower Upper

75 100

77 31.3 22.3 41.3



Abundance Ion 75.00 (74.70 to 75.70): VU033630.D (-2088) (-)

Ion 77.00 (76.70 to 77.70): VU033630.D (-2088) (-)

10000

8000

6000

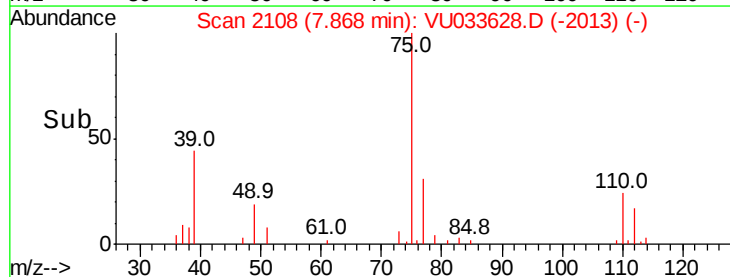
4000

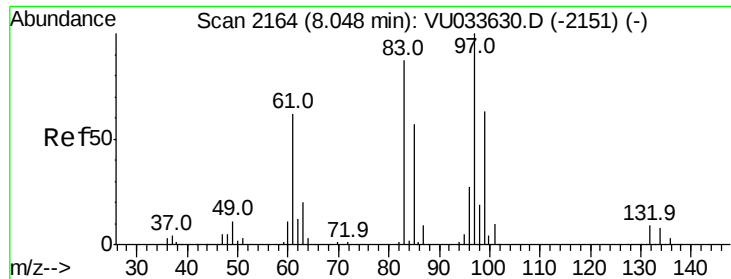
2000

0

7.80 7.85 7.90 7.95

Time-->

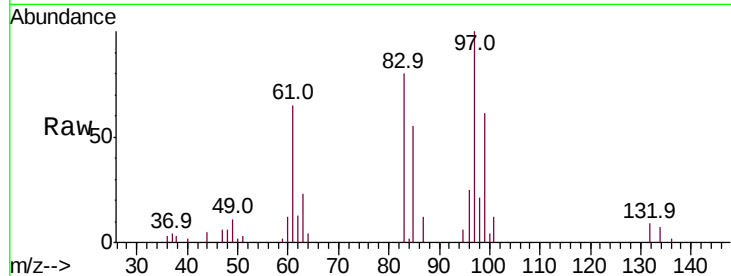




#45
 1,1,2-Trichloroethane
 Concen: 5.695 ug/L
 RT: 8.05 min Scan# 2165
 Delta R.T. 0.00 min
 Lab File: VU033628.D
 Acq: 08 Aug 2019 11:17

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:	97	Resp:	12490
Ion	Ratio	Lower	Upper
97	100		
99	61.3	44.0	81.6
83	79.5	60.6	112.6
85	55.4	39.9	74.1



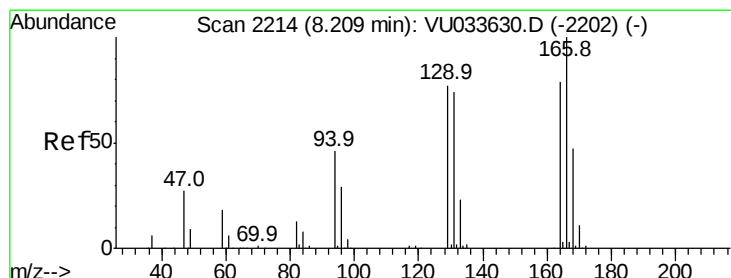
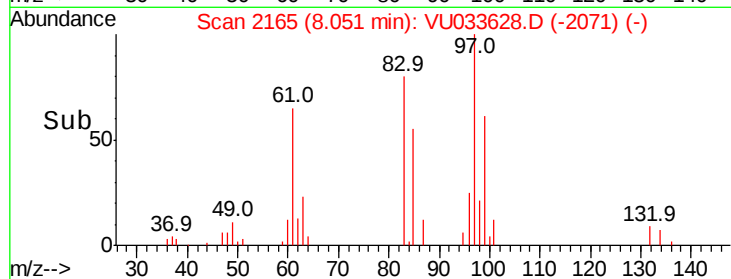
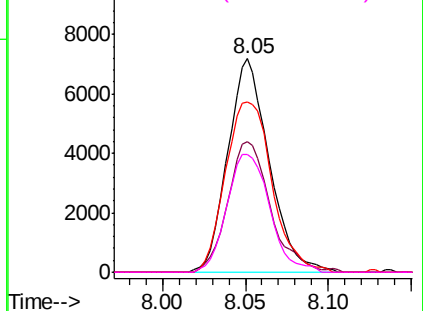
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

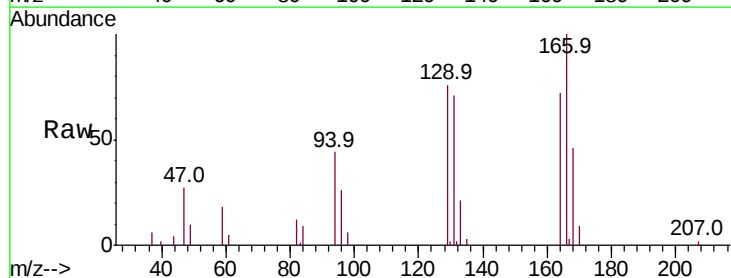
Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46
 Tetrachloroethene
 Concen: 5.406 ug/L
 RT: 8.21 min Scan# 2215
 Delta R.T. 0.00 min
 Lab File: VU033628.D
 Acq: 08 Aug 2019 11:17

Tgt Ion:	164	Resp:	9735
Ion	Ratio	Lower	Upper
164	100		
129	105.5	68.1	126.5
131	98.8	65.5	121.6
166	138.9	88.5	164.3



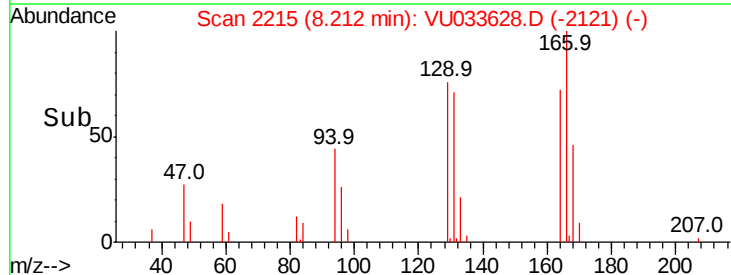
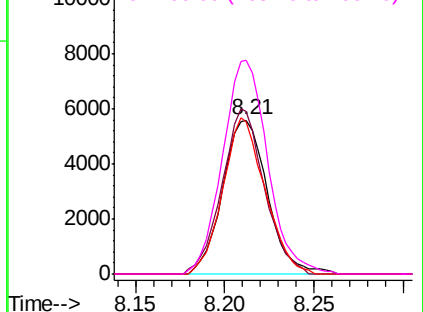
Abundance

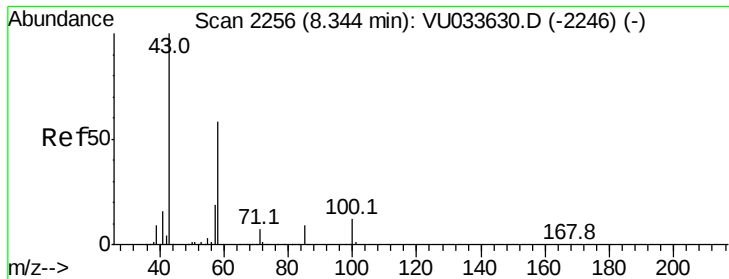
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

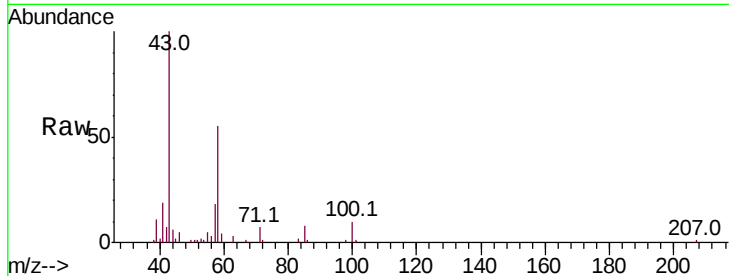




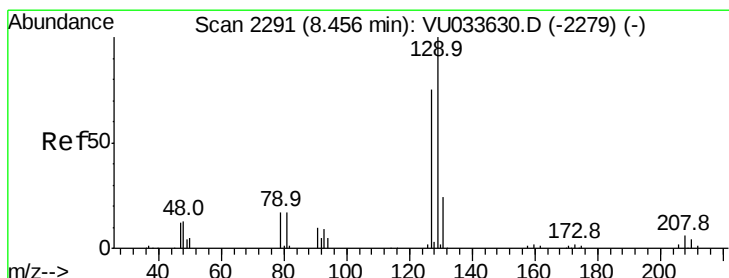
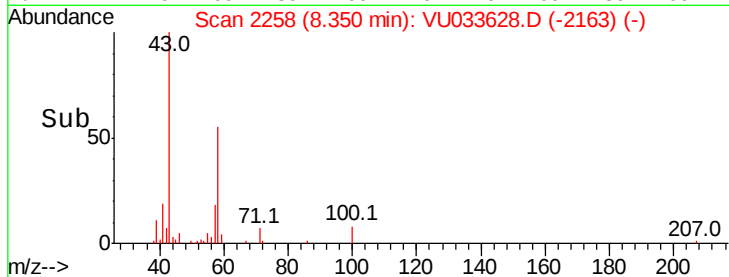
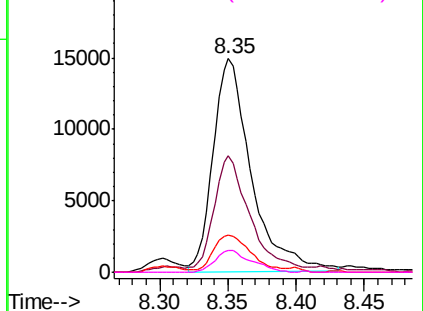
#48
2-Hexanone
Concen: 10.708 ug/L
RT: 8.35 min Scan# 2258
Delta R.T. 0.01 min
Lab File: VU033628.D
Acq: 08 Aug 2019 11:17

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 28841
Ion Ratio Lower Upper
43 100
58 48.2 44.8 67.2
57 17.5 15.5 23.3
100 9.6 9.4 14.2

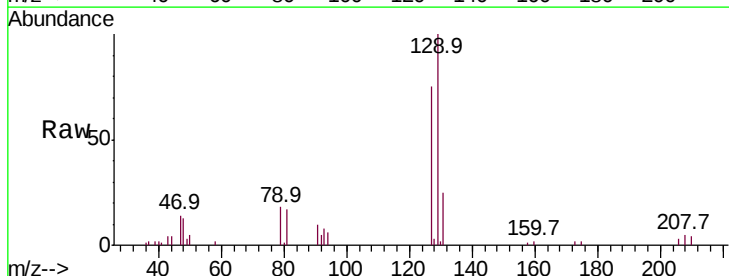


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

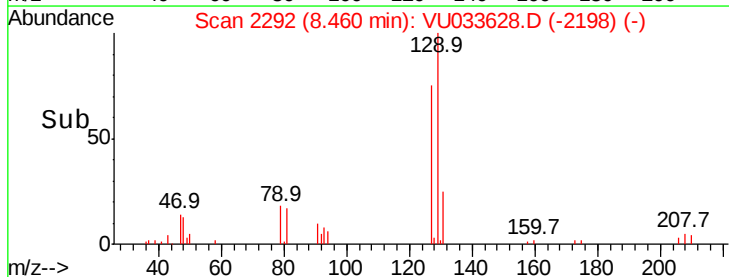
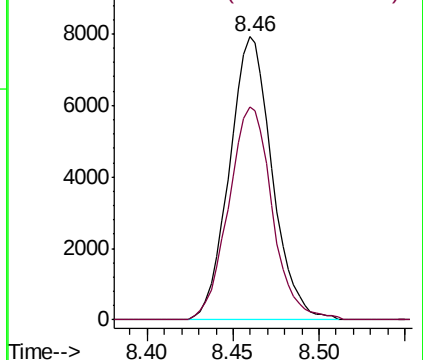


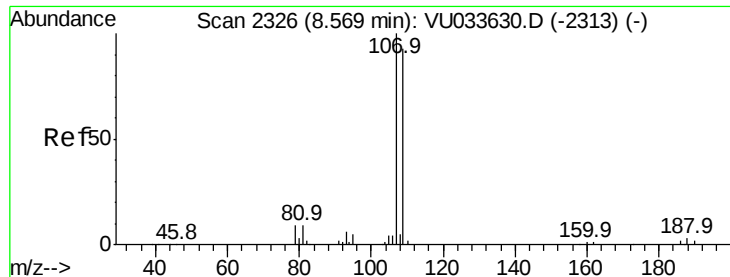
#49
Dibromochloromethane
Concen: 5.553 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU033628.D
Acq: 08 Aug 2019 11:17

Tgt Ion: 129 Resp: 13702
Ion Ratio Lower Upper
129 100
127 75.1 52.5 97.5



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

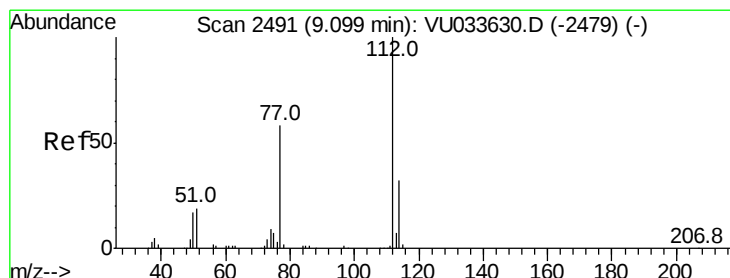
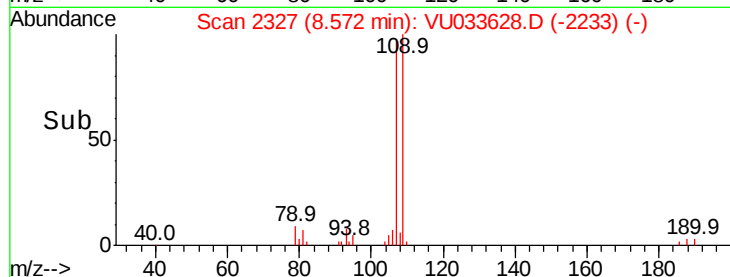
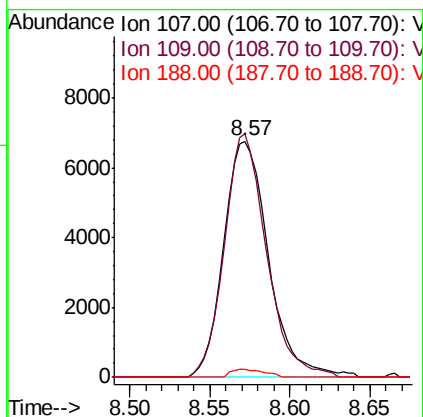
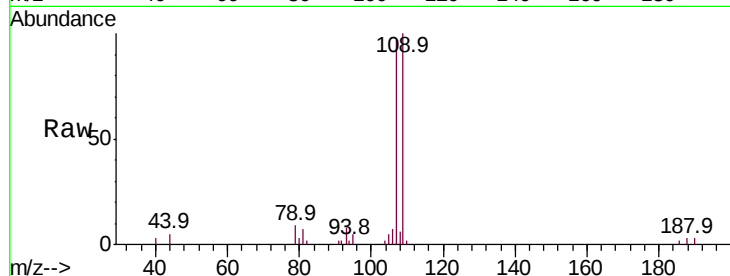




#50
1,2-Dibromoethane
Concen: 5.365 ug/L
RT: 8.57 min Scan# 2327
Delta R.T. 0.00 min
Lab File: VU033628.D
Acq: 08 Aug 2019 11:17

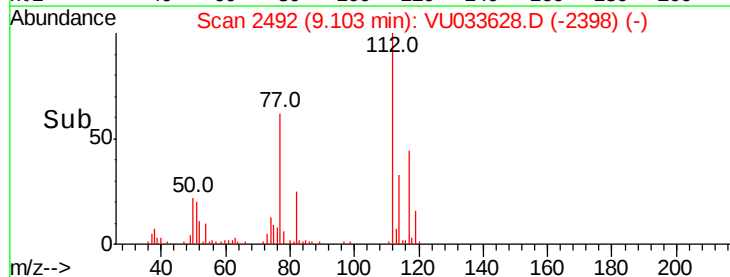
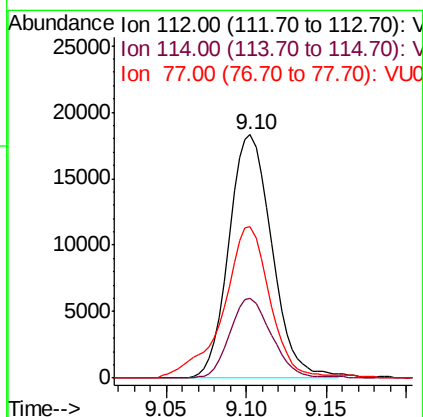
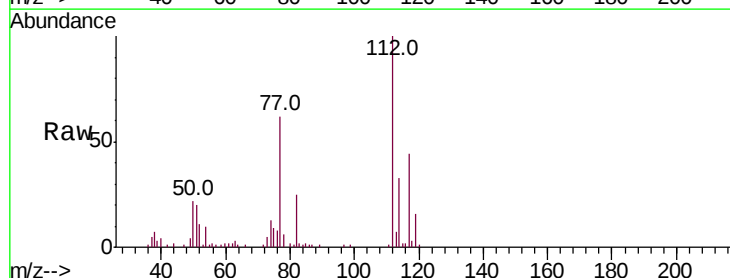
Instrument :
MSVOA_U
ClientSampleId :

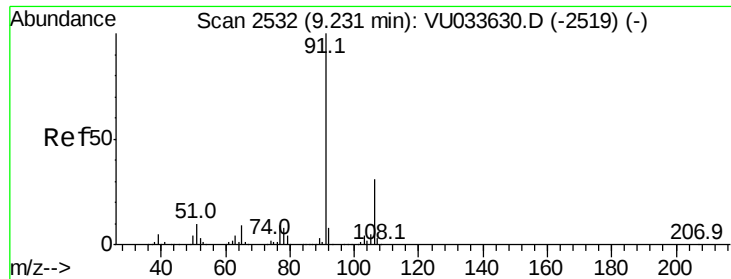
Tot Ion	Ratio	Lower	Upper
107	100		
109	103.0	65.4	121.4
188	3.5	2.6	4.0



#51
Chlorobenzene
Concen: 5.637 ug/L
RT: 9.10 min Scan# 2492
Delta R.T. 0.00 min
Lab File: VU033628.D
Acq: 08 Aug 2019 11:17

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.8	22.7	42.1
77	62.1	47.2	70.8





#52

Ethylbenzene

Concen: 5.156 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. 0.00 min

Lab File: VU033628.D

Acq: 08 Aug 2019 11:17

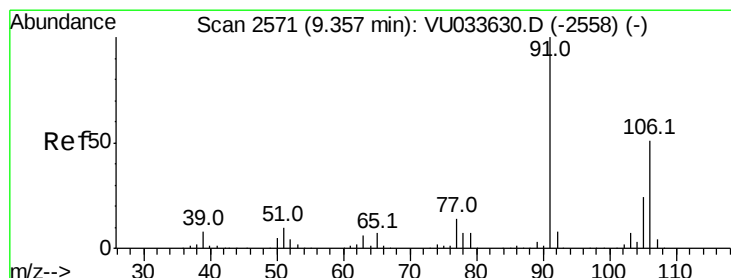
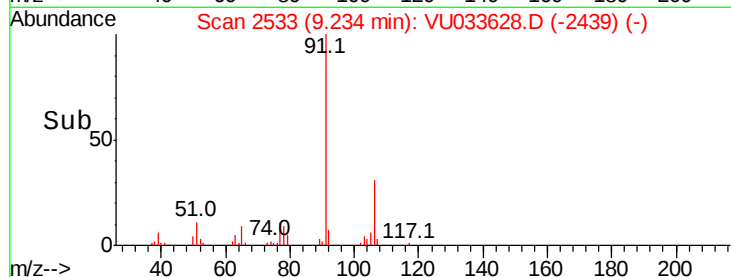
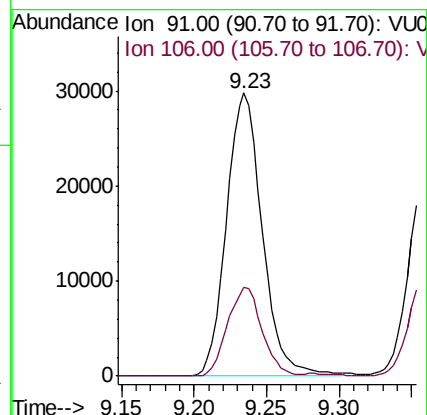
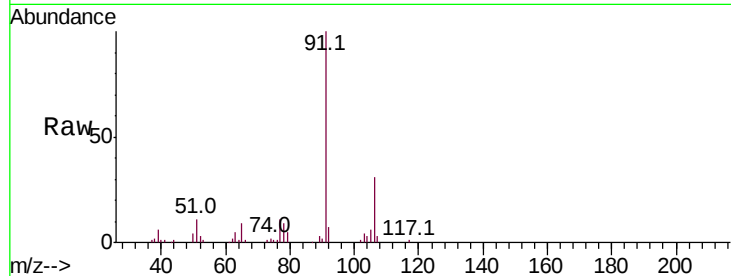
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 91 Resp: 51039

Ion Ratio Lower Upper

91 100

106 31.5 21.9 40.7



#53

m,p-Xylene

Concen: 5.069 ug/L

RT: 9.36 min Scan# 2572

Delta R.T. 0.00 min

Lab File: VU033628.D

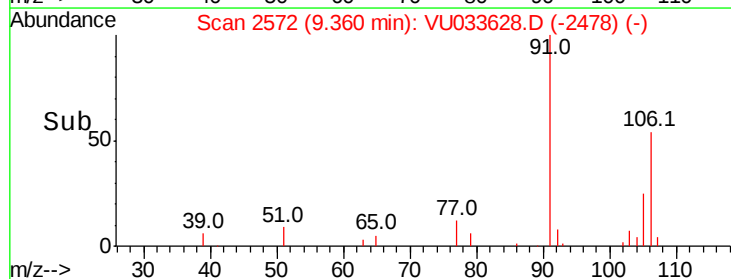
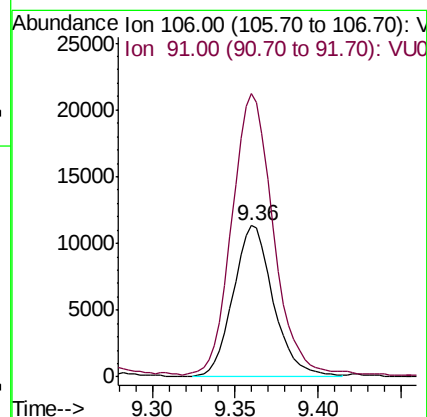
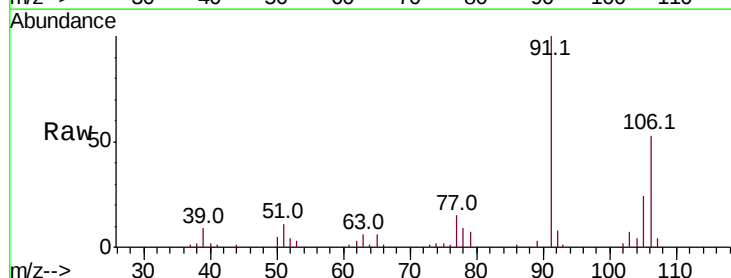
Acq: 08 Aug 2019 11:17

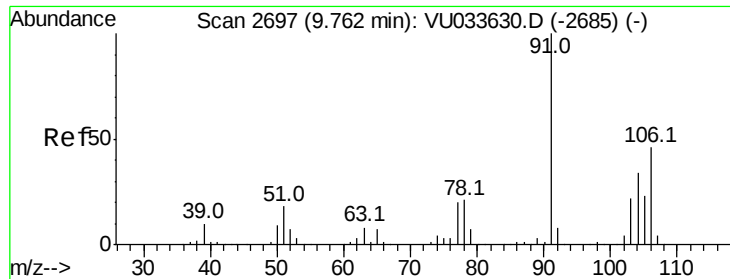
Tgt Ion: 106 Resp: 19112

Ion Ratio Lower Upper

106 100

91 186.9 138.5 257.3





#54

o-xylene

Concen: 5.044 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. -0.00 min

Lab File: VU033628.D

Acq: 08 Aug 2019 11:17

Instrument :

MSVOA_U

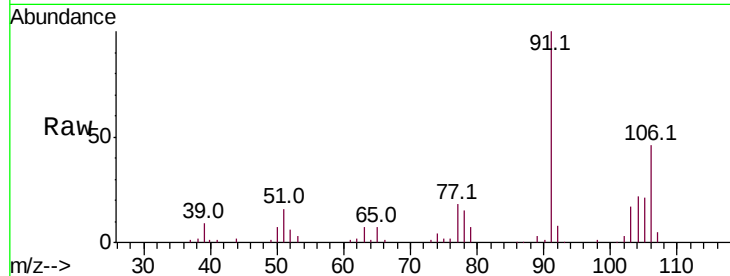
ClientSampled :

Tot Ion:106 Resp: 18596

Ion Ratio Lower Upper

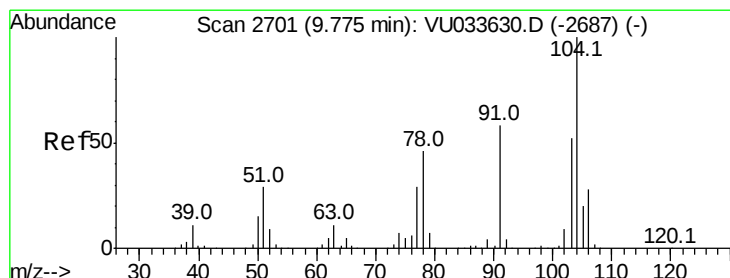
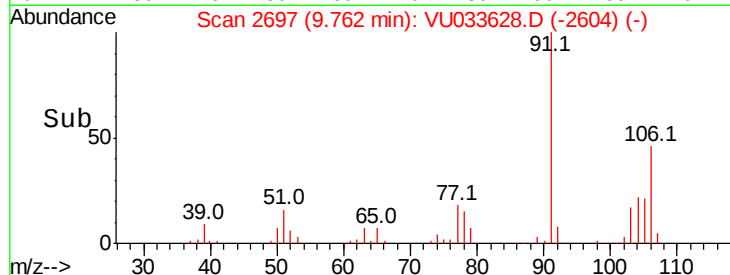
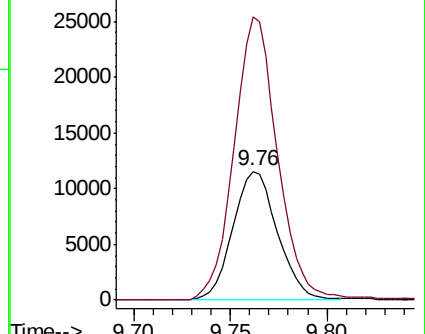
106 100

91 219.5 152.1 282.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 4.742 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU033628.D

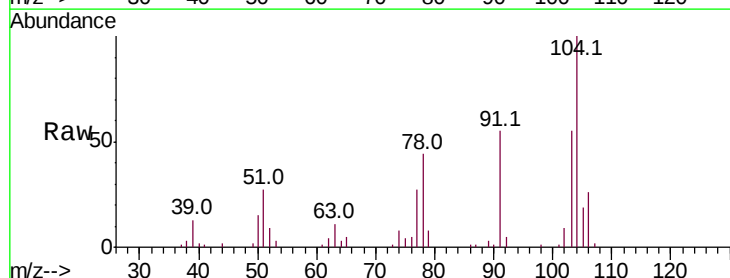
Acq: 08 Aug 2019 11:17

Tgt Ion:104 Resp: 29822

Ion Ratio Lower Upper

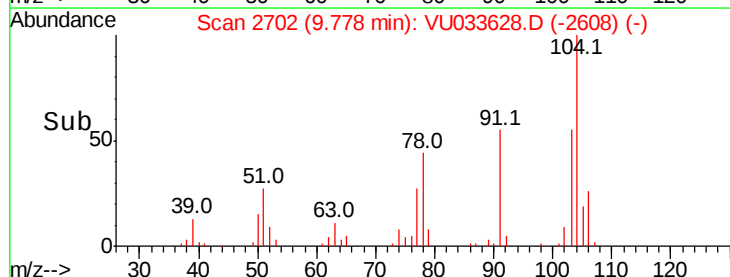
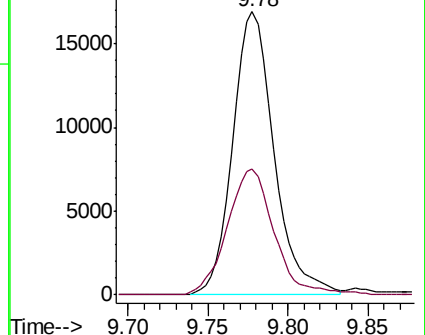
104 100

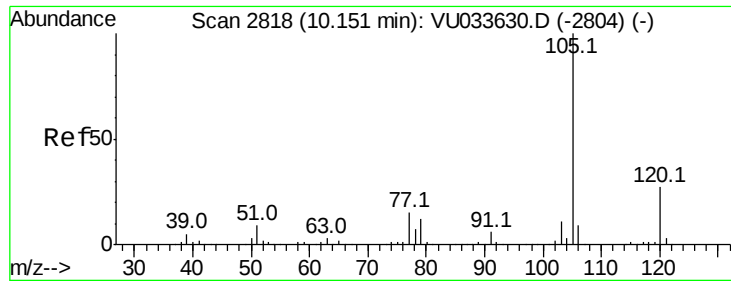
78 44.4 32.3 60.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 4.938 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. -0.00 min

Lab File: VU033628.D

Acq: 08 Aug 2019 11:17

Instrument :

MSVOA_U

ClientSampleId :

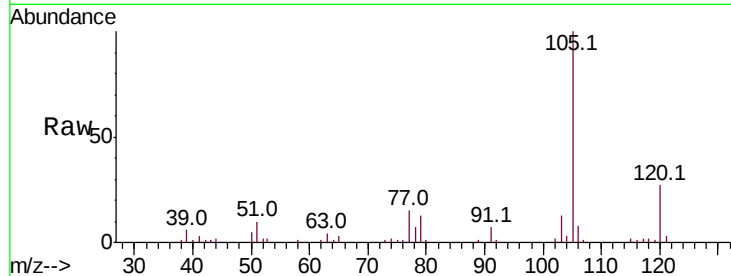
Tot Ion:105 Resp: 47055

Ion Ratio Lower Upper

105 100

120 26.6 21.5 32.3

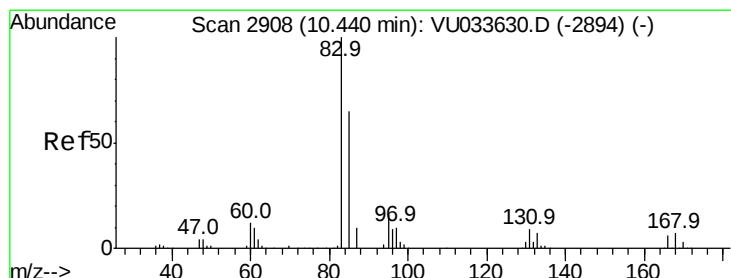
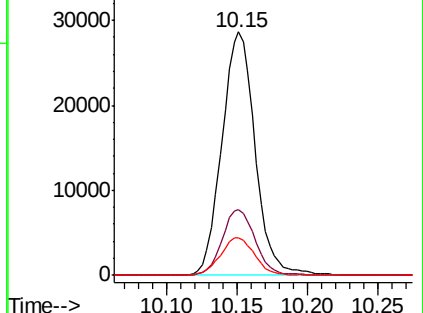
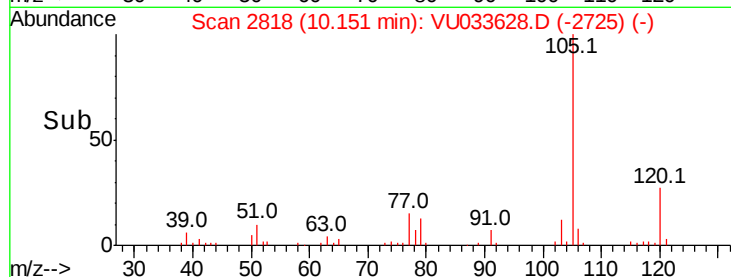
77 15.7 12.4 18.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.791 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VU033628.D

Acq: 08 Aug 2019 11:17

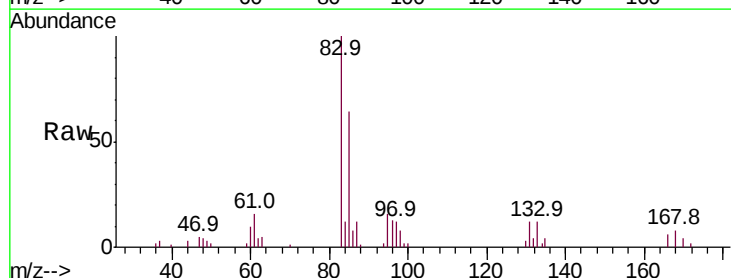
Tgt Ion: 83 Resp: 22633

Ion Ratio Lower Upper

83 100

85 64.3 45.7 84.9

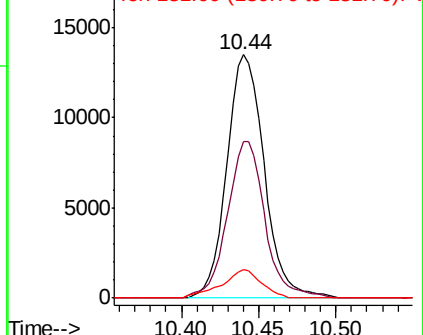
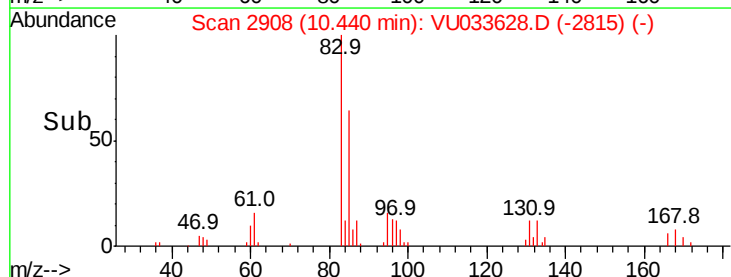
131 12.0 7.7 11.5#

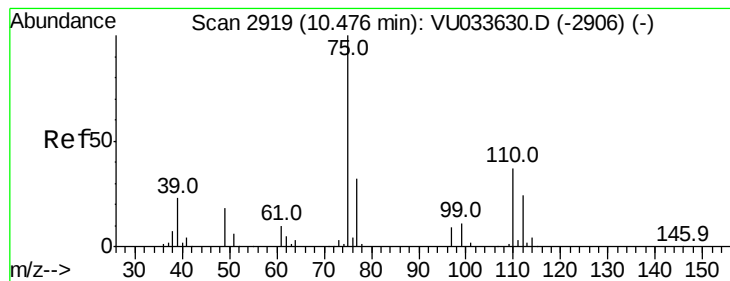


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 5.755 ug/L

RT: 10.48 min Scan# 2920

Delta R.T. 0.00 min

Lab File: VU033628.D

Acq: 08 Aug 2019 11:17

Instrument :

MSVOA_U

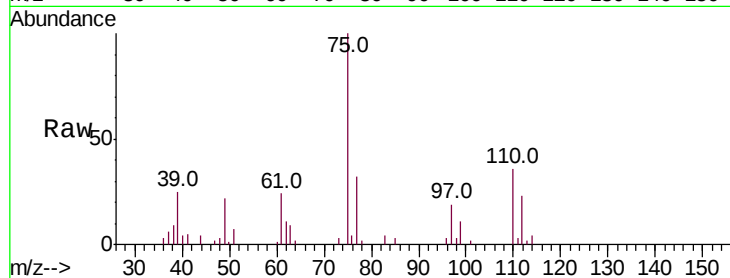
ClientSampleId :

Tot Ion: 75 Resp: 17685

Ion Ratio Lower Upper

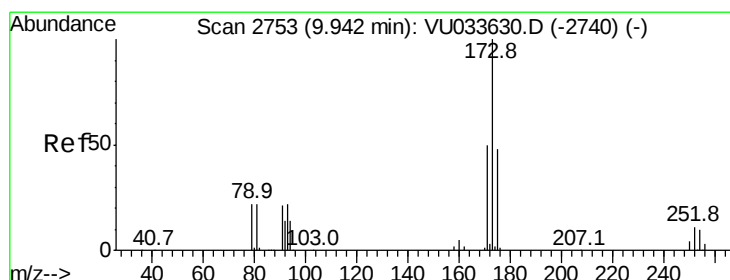
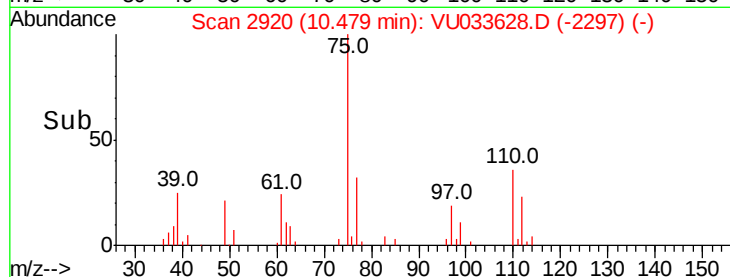
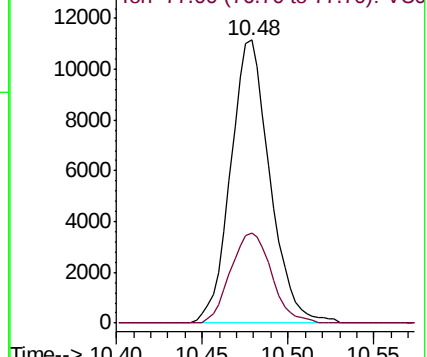
75 100

77 33.3 25.5 38.3



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0



#61

Bromoform

Concen: 5.944 ug/L

RT: 9.94 min Scan# 2753

Delta R.T. -0.00 min

Lab File: VU033628.D

Acq: 08 Aug 2019 11:17

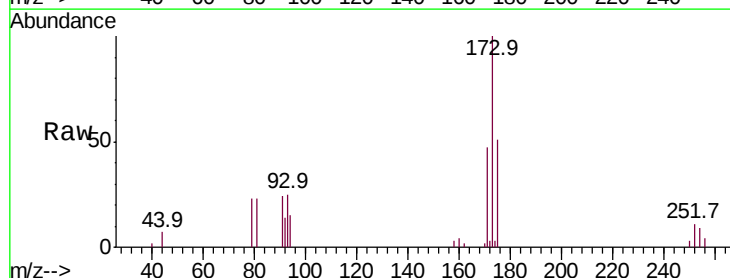
Tgt Ion:173 Resp: 10468

Ion Ratio Lower Upper

173 100

175 52.3 39.3 58.9

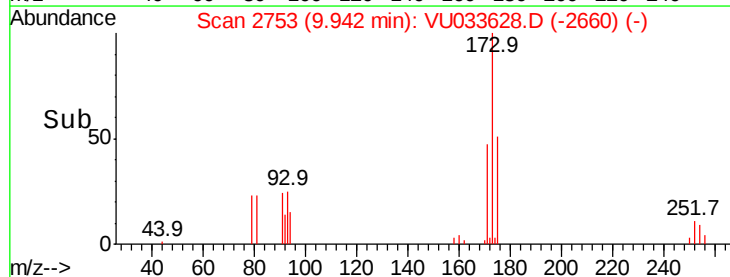
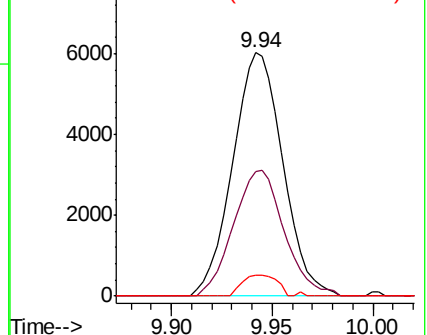
254 6.1 7.8 11.8#

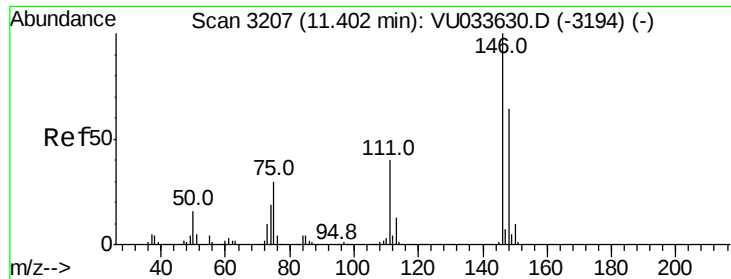


Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V





#62

1,3-Dichlorobenzene

Concen: 5.696 ug/L

RT: 11.40 min Scan# 3207

Delta R.T. -0.00 min

Lab File: VU033628.D

Acq: 08 Aug 2019 11:17

Instrument :

MSVOA_U

ClientSampleId :

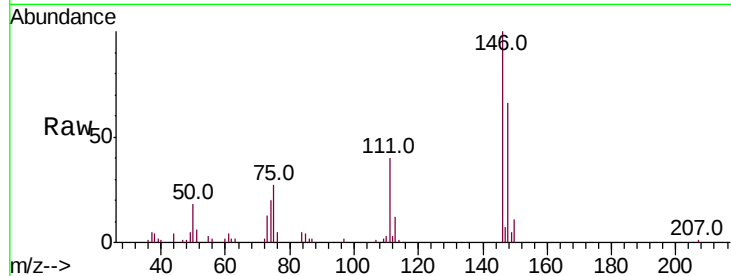
Tot Ion:146 Resp: 25247

Ion Ratio Lower Upper

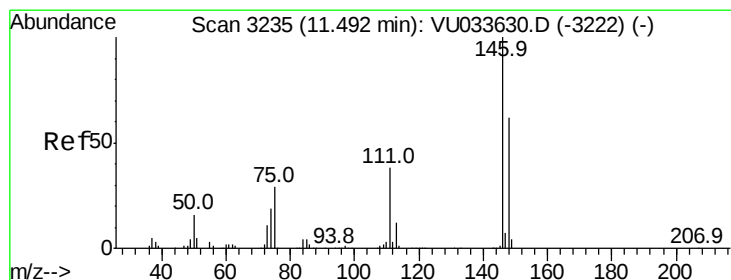
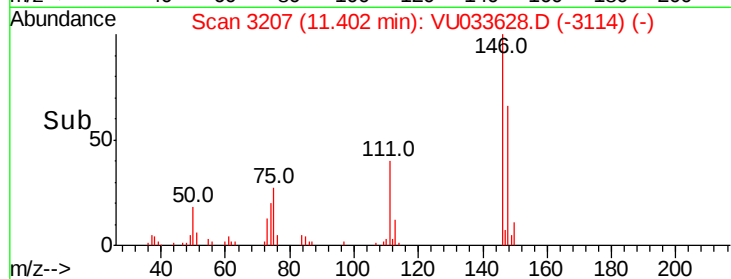
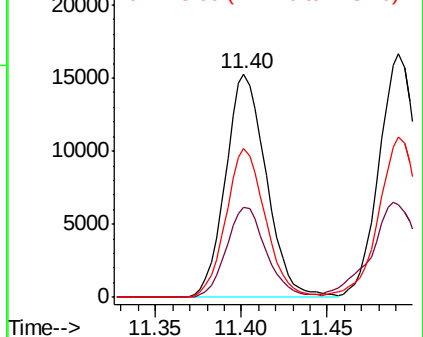
146 100

111 40.5 27.9 51.9

148 66.4 44.7 82.9



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 6.053 ug/L

RT: 11.49 min Scan# 3235

Delta R.T. -0.00 min

Lab File: VU033628.D

Acq: 08 Aug 2019 11:17

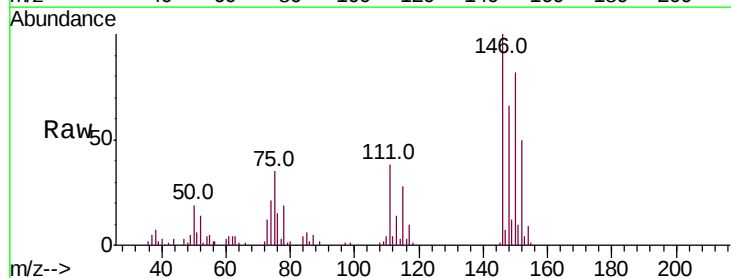
Tgt Ion:146 Resp: 27424

Ion Ratio Lower Upper

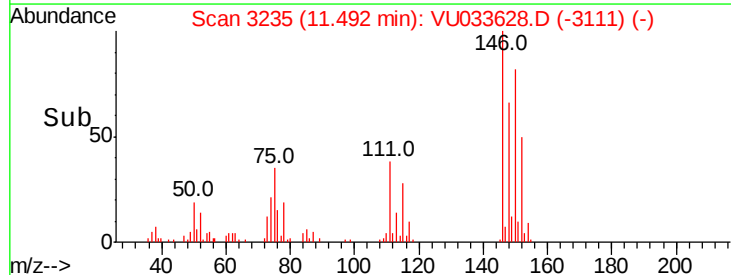
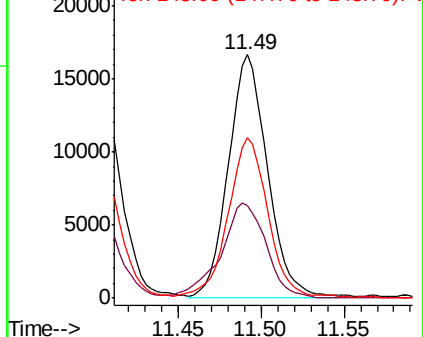
146 100

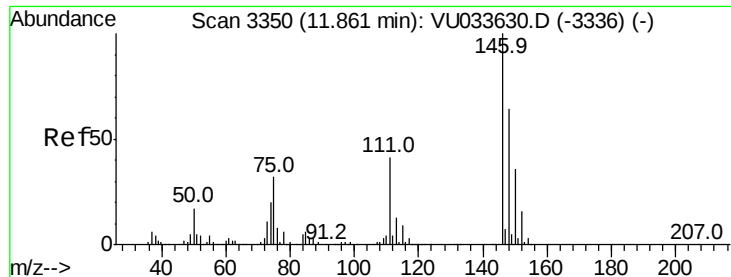
111 38.0 26.8 49.8

148 65.7 43.8 81.3



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 5.726 ug/L

RT: 11.86 min Scan# 3351

Delta R.T. 0.00 min

Lab File: VU033628.D

Acq: 08 Aug 2019 11:17

Instrument :

MSVOA_U

ClientSampleId :

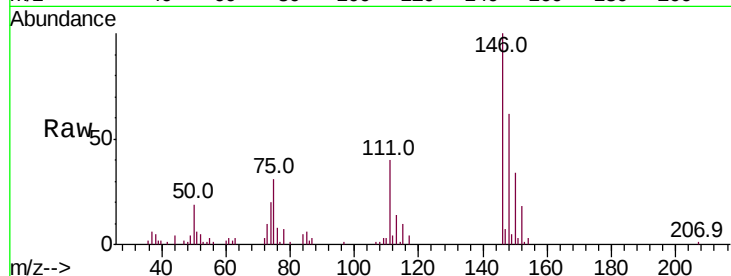
Tot Ion:146 Resp: 25432

Ion Ratio Lower Upper

146 100

111 40.3 33.0 49.4

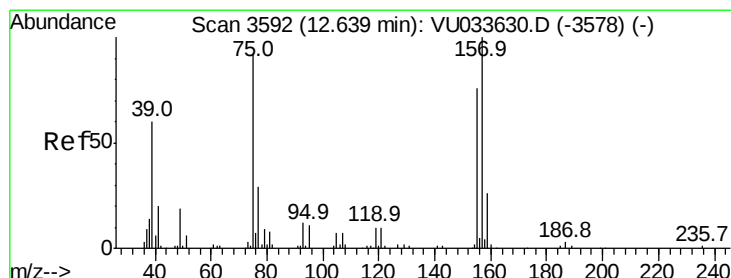
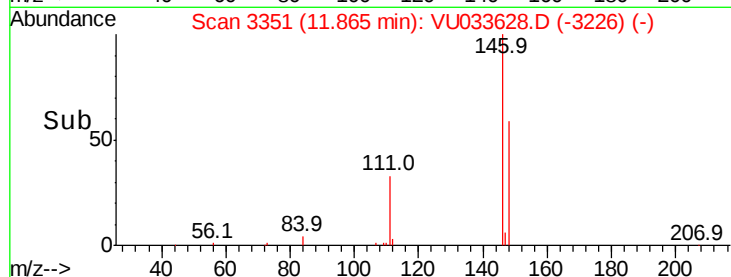
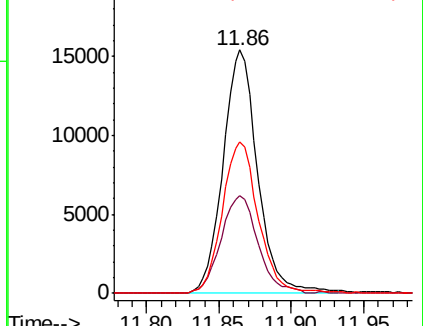
148 62.3 51.0 76.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 5.840 ug/L

RT: 12.64 min Scan# 3593

Delta R.T. 0.00 min

Lab File: VU033628.D

Acq: 08 Aug 2019 11:17

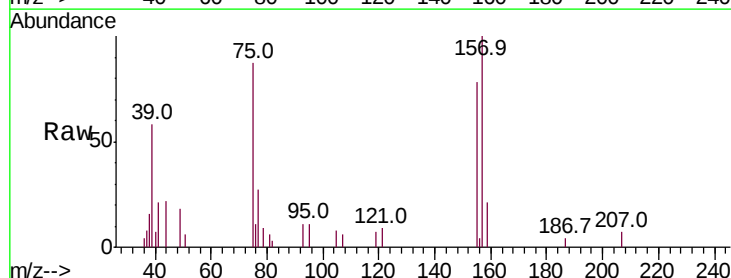
Tgt Ion: 75 Resp: 4864

Ion Ratio Lower Upper

75 100

155 89.0 65.8 98.8

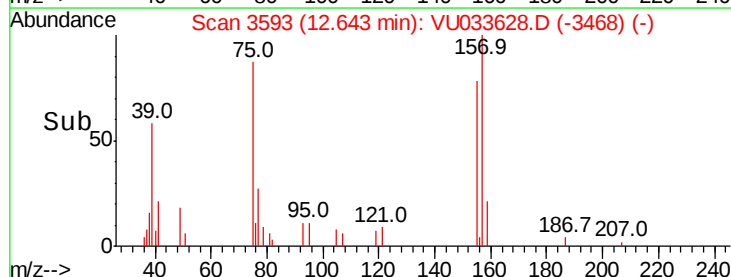
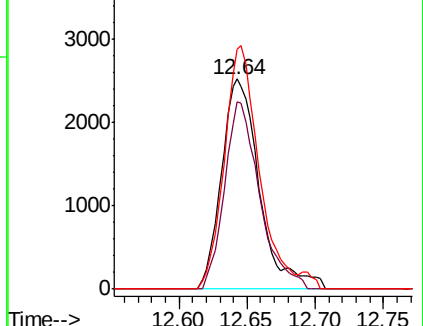
157 114.3 86.9 130.3

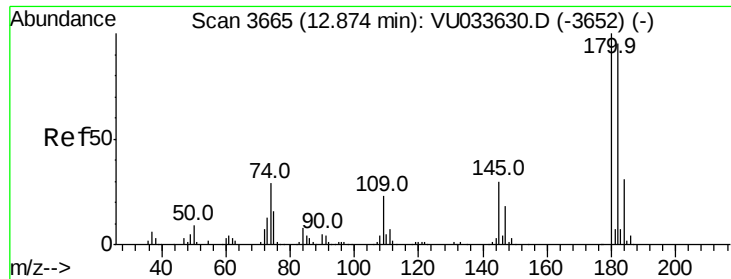


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

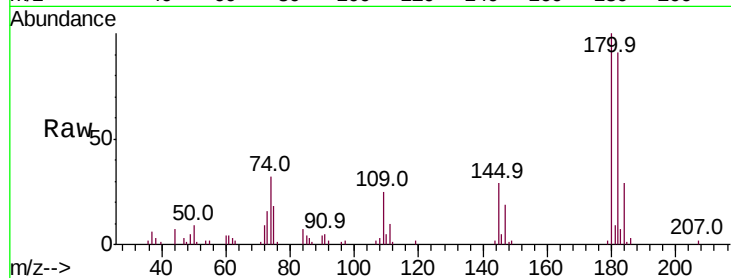




#67
 1,3,5-Trichlorobenzene
 Concen: 5.426 ug/L
 RT: 12.87 min Scan# 3665
 Delta R.T. -0.00 min
 Lab File: VU033628.D
 Acq: 08 Aug 2019 11:17

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:	180	Resp:	18434
Ion	Ratio	Lower	Upper
180	100		
182	91.7	76.3	114.5
184	28.5	24.2	36.4
145	29.6	23.5	35.3



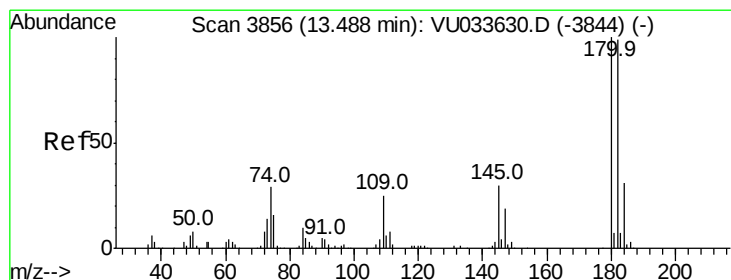
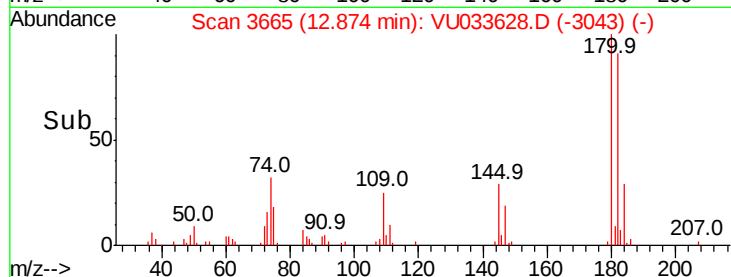
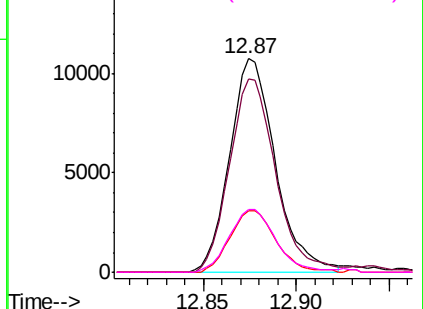
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

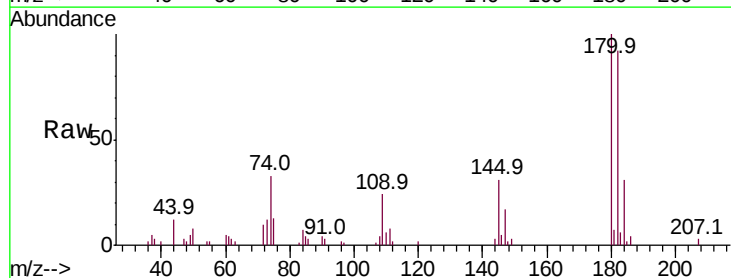
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 4.760 ug/L
 RT: 13.49 min Scan# 3858
 Delta R.T. 0.01 min
 Lab File: VU033628.D
 Acq: 08 Aug 2019 11:17

Tgt Ion:	180	Resp:	13781
Ion	Ratio	Lower	Upper
180	100		
182	99.4	78.5	117.7
145	30.2	23.6	35.4

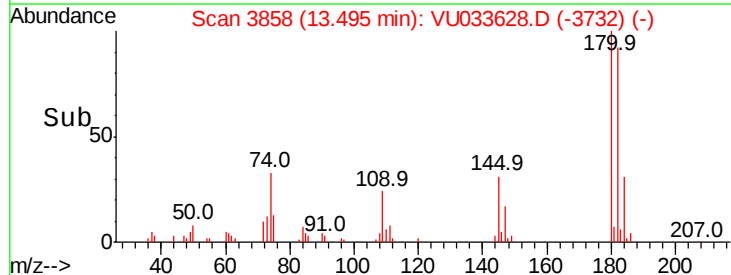
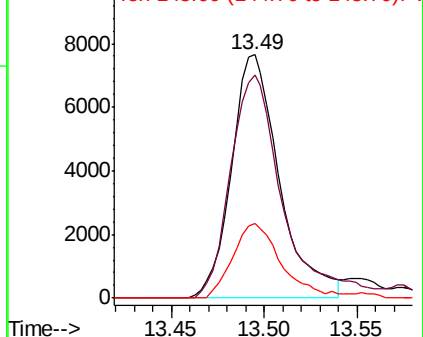


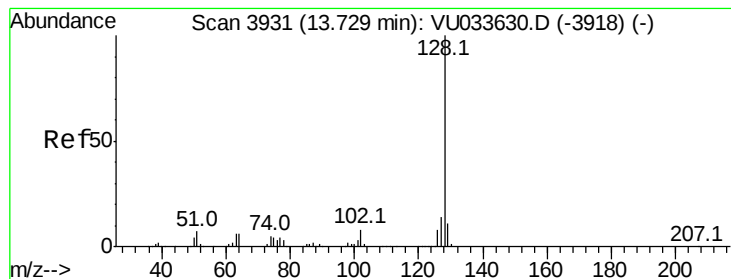
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 4.254 ug/L

RT: 13.73 min Scan# 3932

Delta R.T. 0.00 min

Lab File: VU033628.D

Acq: 08 Aug 2019 11:17

Instrument :

MSVOA_U

ClientSampleId :

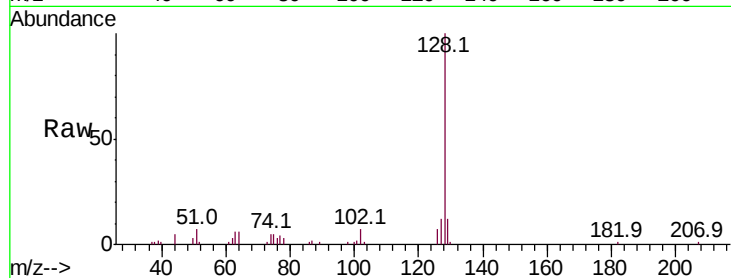
Tot Ion:128 Resp: 35846

Ion Ratio Lower Upper

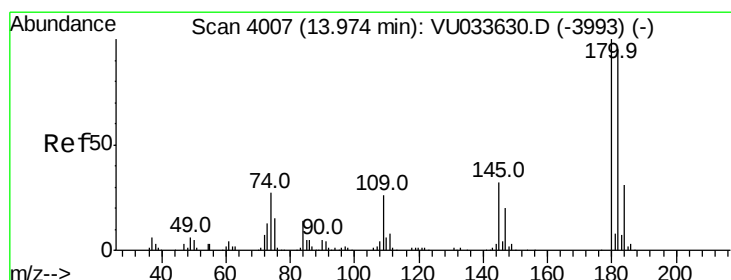
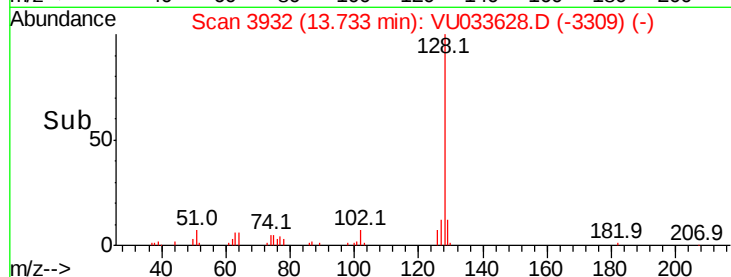
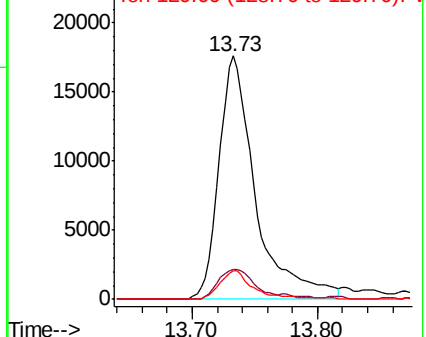
128 100

127 11.9 10.6 16.0

129 10.4 8.8 13.2



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



#70

1,2,3-Trichlorobenzene

Concen: 4.871 ug/L

RT: 13.98 min Scan# 4008

Delta R.T. 0.00 min

Lab File: VU033628.D

Acq: 08 Aug 2019 11:17

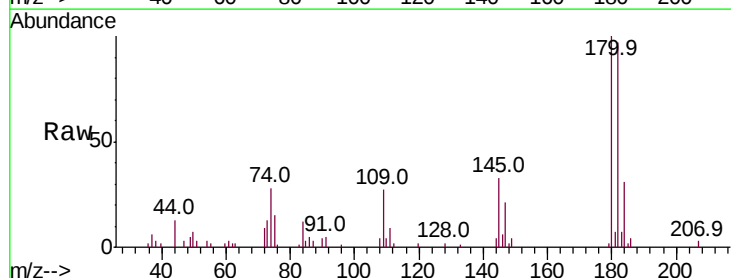
Tgt Ion:180 Resp: 15025

Ion Ratio Lower Upper

180 100

182 93.4 76.6 115.0

145 31.4 25.1 37.7



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

