

Data File : VL032850.D
Acq On : 30 Nov 2018 15:49
Operator : SY/AP
Sample : J6132-01
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SITE-D-DUP

Quant Time: Dec 01 02:22:57 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:00:23 2018
QLast Update : Wed Nov 14 07:00:23 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.78	49	1453525	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	3896012	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3900017	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	3342048	11.46	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	114.60%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.08	85	12977	0.062	ppbv	99
3) Chlorodifluoromethane	3.02	51	34682	0.301	ppbv	95
4) Chloromethane	3.18	50	12963	0.203	ppbv #	86
5) Vinyl Chloride	3.29	62	2573	0.038	ppbv #	79
6) Bromomethane	3.52	94	1371	0.033	ppbv	88
7) Chloroethane	3.61	64	2306	0.094	ppbv #	36
9) Propene	3.24	41	7079794	153.523	ppbv	90
10) Heptane	8.27	43	1710794	9.717	ppbv	99
11) Trichlorofluoromethane	4.02	101	50785	0.258	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.56	101	9322	0.058	ppbv #	14
13) Ethanol	3.65	45	591186	39.139	ppbv	99
14) Bromoethene	3.80	108	2818	0.053	ppbv #	88
15) Acetone	3.90	43	3263720	24.587	ppbv #	56
16) 1,3-Butadiene	3.35	39	1928573	37.517	ppbv #	33
17) tert-Butyl alcohol	4.37	59	163740	3.933	ppbv #	73
19) Isopropyl Alcohol	4.04	45	41598	0.470	ppbv #	1
20) Methylene Chloride	4.42	84	242649	3.531	ppbv	97
21) Allyl Chloride	4.44	41	248332	2.226	ppbv #	42
23) Vinyl Acetate	5.15	43	4865135	20.107	ppbv #	1
24) 1,1-Dichloroethane	5.21	63	10307	0.054	ppbv	98
25) Ethyl Acetate	5.80	43	2249787	7.272	ppbv #	78
26) Hexane	5.80	57	3210196	23.310	ppbv #	44
27) Carbon Disulfide	4.63	76	15311285	87.678	ppbv #	87
28) Methyl tert-Butyl Ether	5.13	73	180388	0.821	ppbv #	54
29) Chloroform	5.86	83	51032	0.208	ppbv	99
30) Cyclohexane	7.27	84	14014830	116.351	ppbv	93
34) 2-Butanone	5.34	43	4752998	23.521	ppbv	99
35) Carbon Tetrachloride	7.15	117	29201	0.093	ppbv #	73
36) Benzene	7.02	78	21920633	70.656	ppbv #	67
37) 1,2-Dichloroethane	6.43	62	6350	0.030	ppbv #	59
39) 1,2-Dichloropropane	8.01	63	12081	0.102	ppbv #	1
41) Tetrahydrofuran	6.10	42	16780	0.145	ppbv #	59
42) Bromodichloromethane	7.94	83	386165	1.364	ppbv #	28
43) Methyl Methacrylate	8.13	69	18614	0.161	ppbv #	1
44) 2,2,4-Trimethylpentane	8.01	57	1376342	2.655	ppbv #	1
45) t-1,3-Dichloropropene	9.43	75	4971	0.032	ppbv #	46
49) Bromoform	13.22	173	6360	0.032	ppbv #	48
50) 4-Methyl-2-Pentanone	8.91	43	104548	0.331	ppbv #	64
51) 2-Hexanone	10.27	43	647430	3.184	ppbv #	86
52) Tetrachloroethene	11.39	164	25600	0.237	ppbv #	85
53) Toluene	9.97	91	15864490	49.016	ppbv	92

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:00:23 2018
QLast Update : Wed Nov 14 07:00:23 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) Chlorobenzene	12.36	112	769412	2.577	ppbv #	33
58) Ethyl Benzene	12.88	91	4085700	8.705	ppbv	96
59) m/p-Xylene	13.14	91	10938051	26.178	ppbv	94
60) o-Xylene	13.86	91	5526679	13.155	ppbv	97
61) Styrene	13.70	104	259674	0.949	ppbv	98
62) Isopropylbenzene	14.84	105	705497	1.242	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.85	83	12327	0.038	ppbv #	1
64) n-propylbenzene	15.73	120	77151	0.517	ppbv #	1
65) tert-Butylbenzene	16.94	119	441146	0.867	ppbv #	74
67) sec-Butylbenzene	17.47	105	257781	0.351	ppbv	97
69) p-Isopropyltoluene	17.83	119	177685	0.305	ppbv #	45
70) n-Butylbenzene	18.73	91	318617	0.538	ppbv #	38
71) 2-Chlorotoluene	15.63	91	17796	0.042	ppbv #	32
72) 4-Ethyltoluene	16.01	105	1000263	2.172	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	1863354	4.139	ppbv	99
74) 1,2,4-Trimethylbenzene	16.94	105	3444689	7.150	ppbv #	71
75) 1,3-Dichlorobenzene	17.17	146	16221	0.059	ppbv #	23
76) 1,4-Dichlorobenzene	17.32	146	23669	0.092	ppbv #	1
77) 1,2-Dichlorobenzene	18.00	146	24949	0.098	ppbv #	51
78) Hexachloro-1,3-Butadiene	23.56	225	7371	0.053	ppbv #	1
79) Naphthalene	22.42	128	351432	1.110	ppbv	98
80) Naphthalene,2-methyl-	25.12	142	38093	0.481	ppbv #	81
81) 1,2,4-Trichlorobenzene	22.16	180	7200	0.045	ppbv #	1

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

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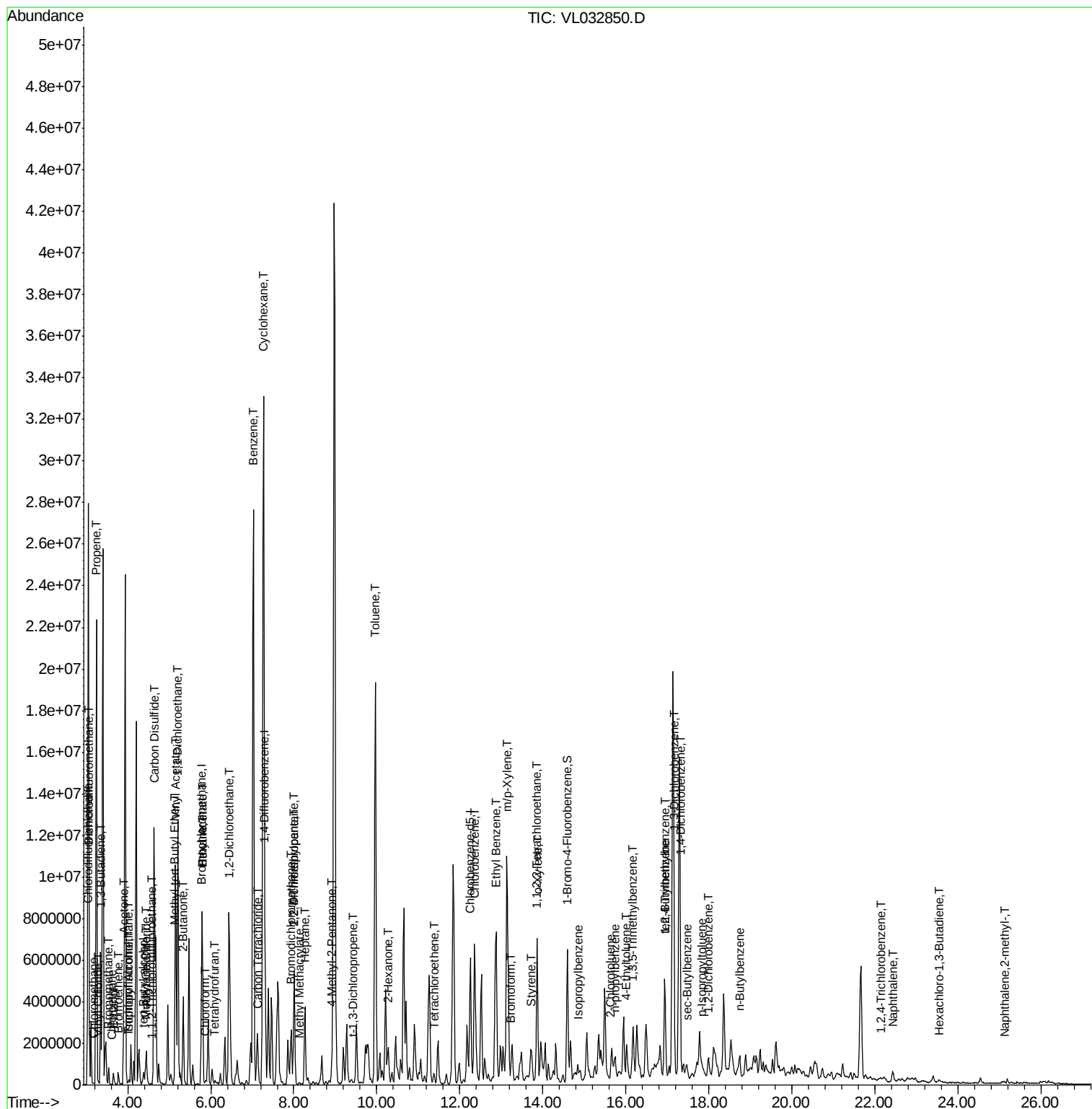
Quant Time: Dec 01 02:22:57 2018

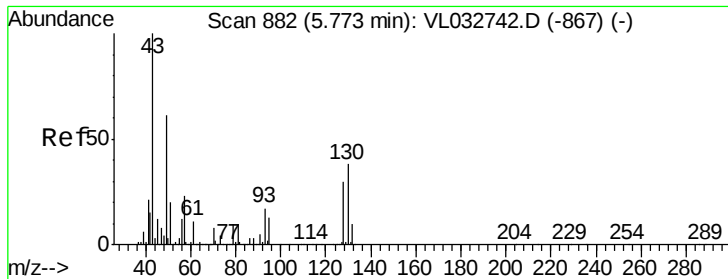
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_L\METHODS\VL111418AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LWed Nov 14 07:00:23 2018

QLast Update : Wed Nov 14 07:00:23 2018

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.78 min Scan# 883

Delta R.T. 0.00 min

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ClientSampleId :

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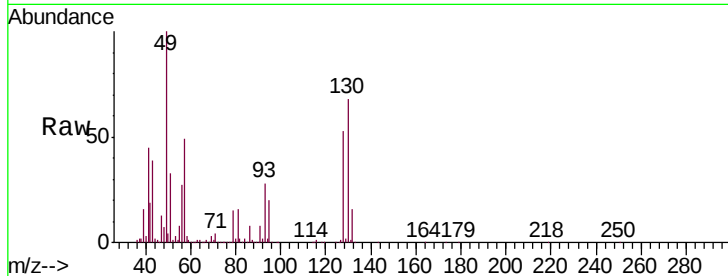
Tgt Ion: 49 Resp: 1453525

Ion Ratio Lower Upper

49 100

128 52.6 24.9 74.6

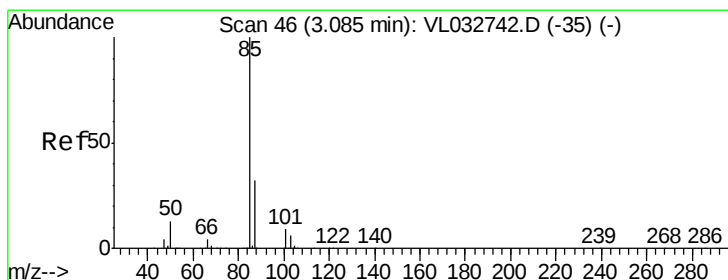
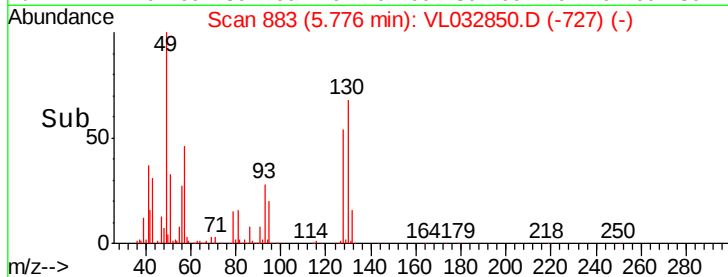
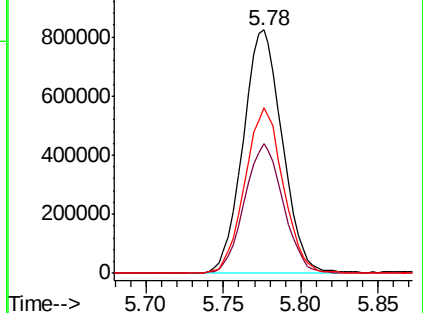
130 67.1 31.4 94.2



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.062 ppbv

RT: 3.08 min Scan# 44

Delta R.T. -0.01 min

Lab File: VL032850.D

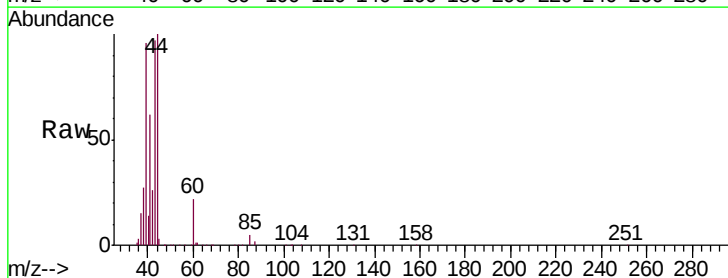
Acq: 30 Nov 2018 15:49

Tgt Ion: 85 Resp: 12977

Ion Ratio Lower Upper

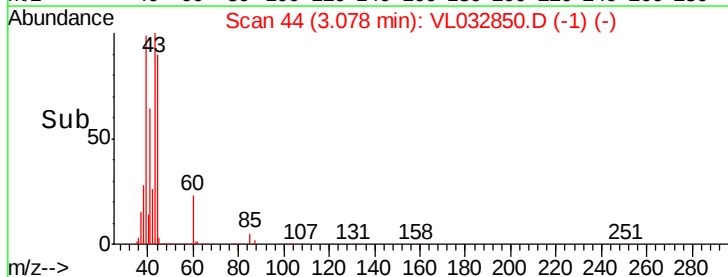
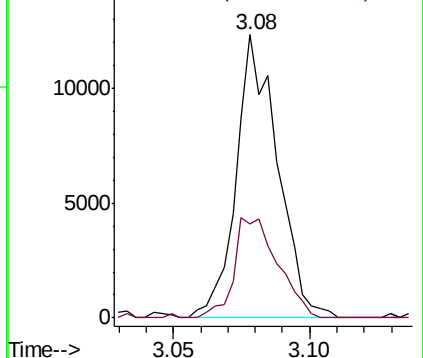
85 100

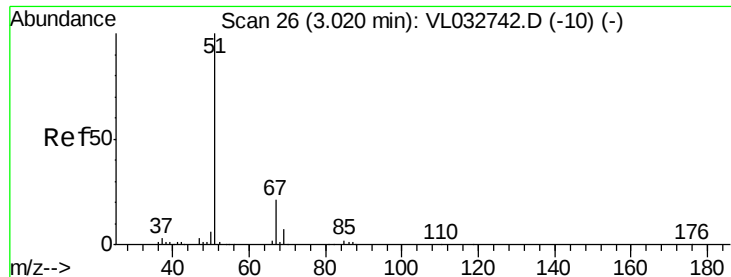
87 33.2 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

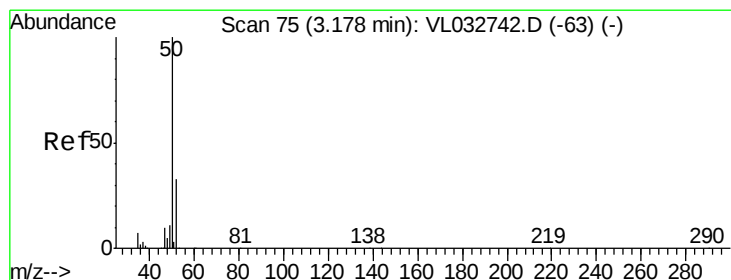
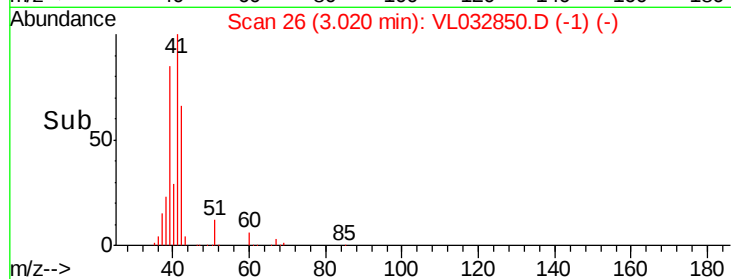
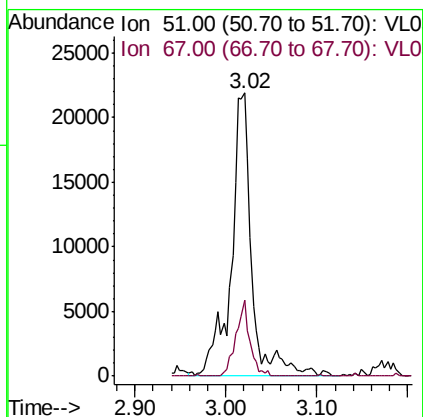
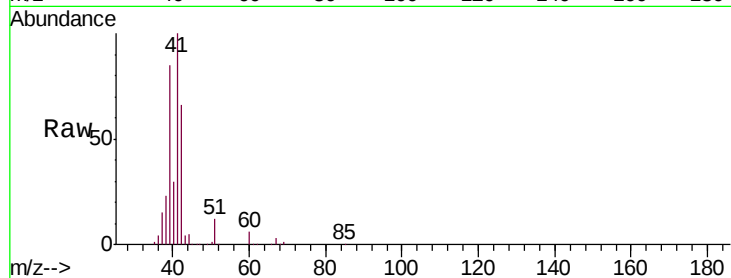




#3
 Chlorodifluoromethane
 Concen: 0.301 ppbv
 RT: 3.02 min Scan# 26
 Delta R.T. -0.00 min
 Lab File: VL032850.D
 Acq: 30 Nov 2018 15:49

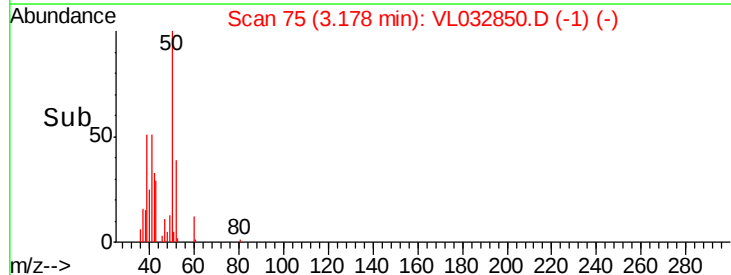
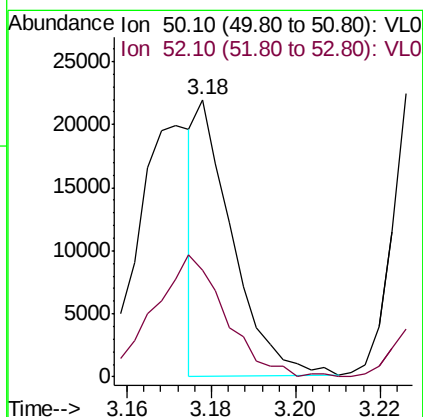
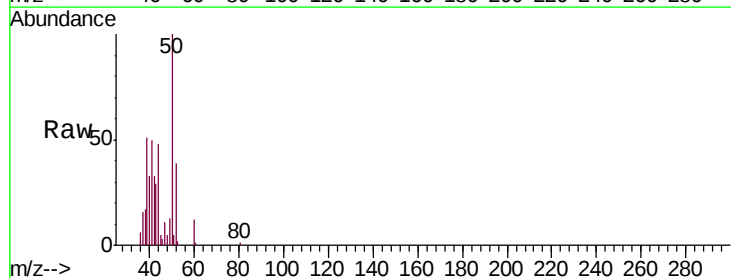
Instrument :
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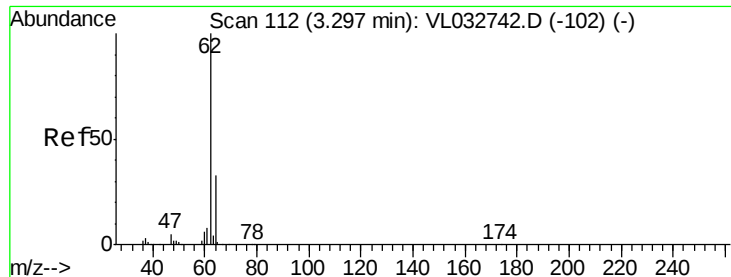
Tgt Ion: 51 Resp: 34682
 Ion Ratio Lower Upper
 51 100
 67 17.7 16.1 24.1



#4
 Chloromethane
 Concen: 0.203 ppbv
 RT: 3.18 min Scan# 75
 Delta R.T. -0.00 min
 Lab File: VL032850.D
 Acq: 30 Nov 2018 15:49

Tgt Ion: 50 Resp: 12963
 Ion Ratio Lower Upper
 50 100
 52 41.2 26.6 40.0#





#5

Vinyl Chloride

Concen: 0.038 ppbv

RT: 3.29 min Scan# 111

Delta R.T. -0.00 min

Lab File: VL032850.D

Acq: 30 Nov 2018 15:49

Instrument :

MSVOA_L

ClientSampleId :

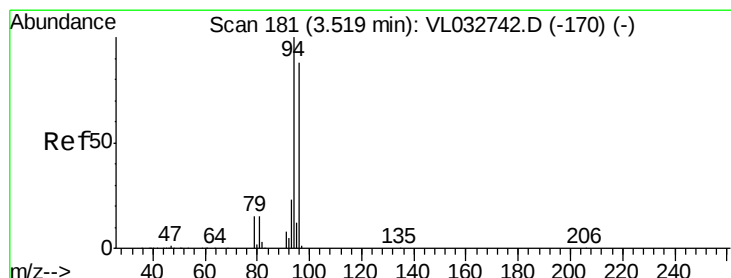
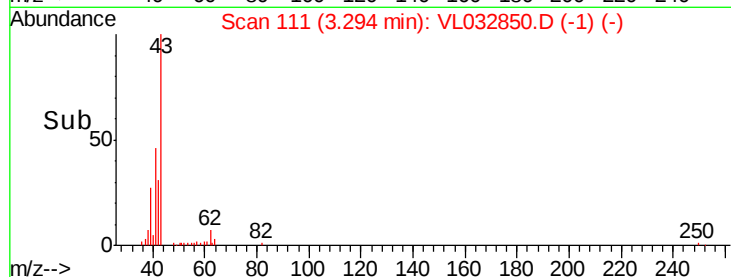
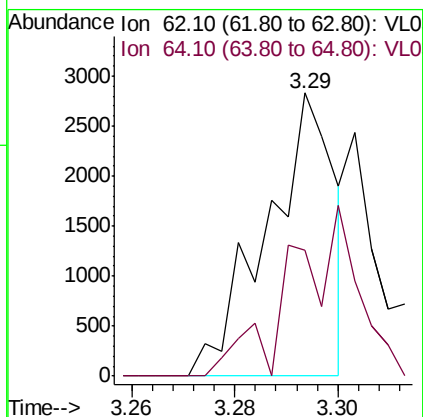
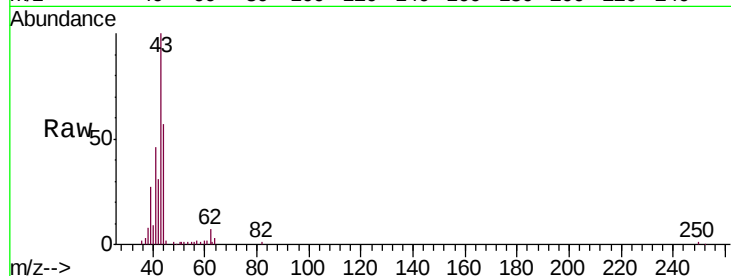
SITE-D-DUP

Tgt Ion: 62 Resp: 2573

Ion Ratio Lower Upper

62 100

64 44.6 26.2 39.4#



#6

Bromomethane

Concen: 0.033 ppbv

RT: 3.52 min Scan# 182

Delta R.T. 0.00 min

Lab File: VL032850.D

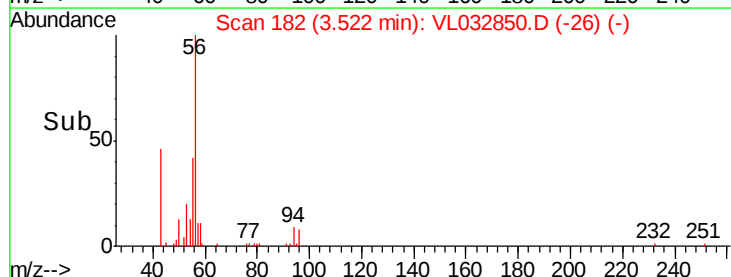
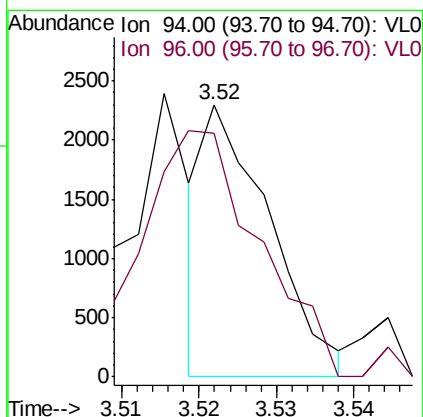
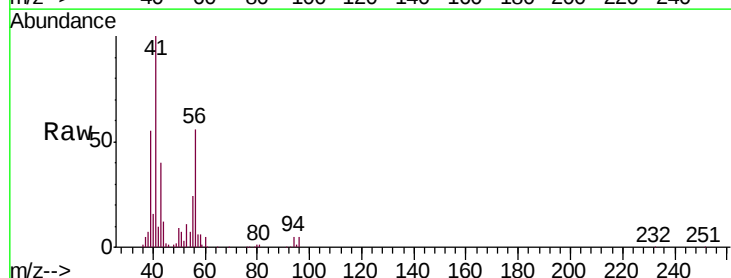
Acq: 30 Nov 2018 15:49

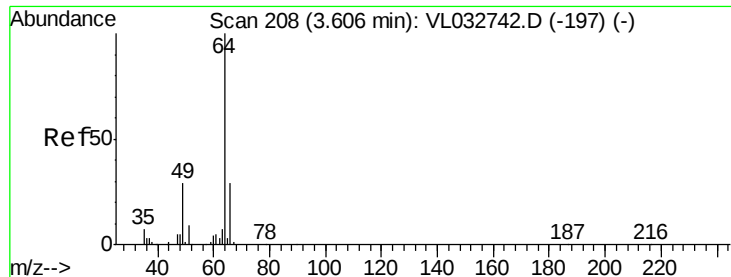
Tgt Ion: 94 Resp: 1371

Ion Ratio Lower Upper

94 100

96 99.0 70.2 105.2





#7

Chloroethane

Concen: 0.094 ppbv

RT: 3.61 min Scan# 209

Delta R.T. 0.00 min

Lab File: VL032850.D

Acq: 30 Nov 2018 15:49

Instrument :

MSVOA_L

ClientSampleId :

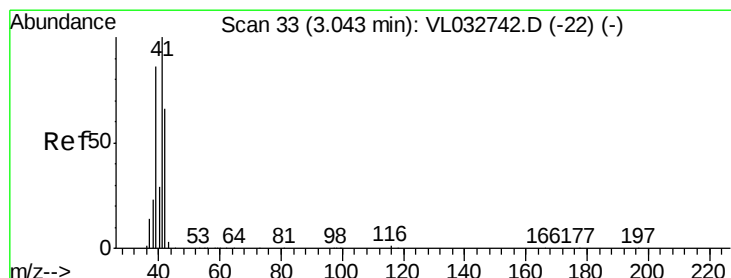
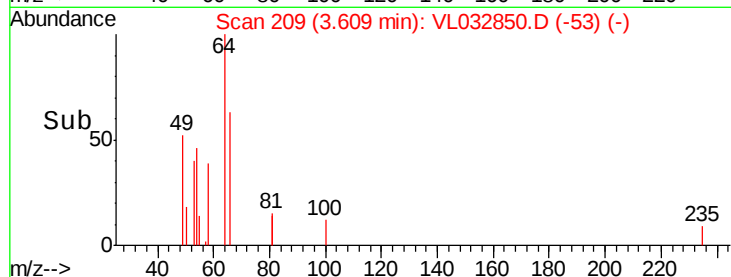
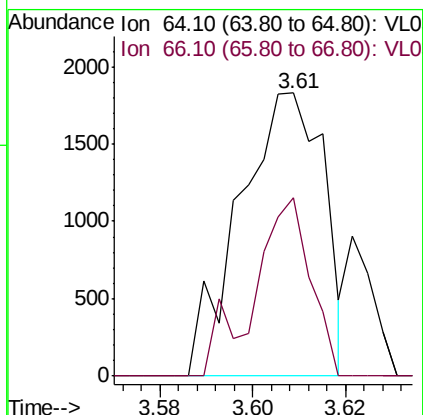
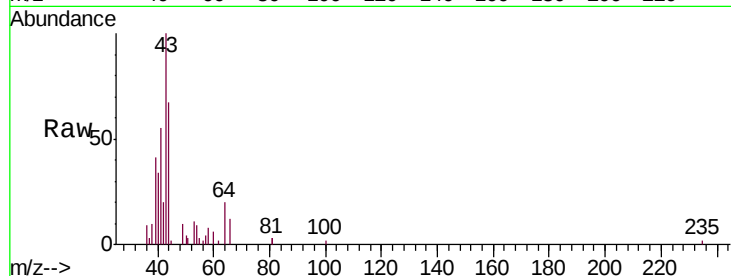
SITE-D-DUP

Tgt Ion: 64 Resp: 2306

Ion Ratio Lower Upper

64 100

66 63.0 23.2 34.8#



#9

Propene

Concen: 153.523 ppbv

RT: 3.24 min Scan# 95

Delta R.T. 0.20 min

Lab File: VL032850.D

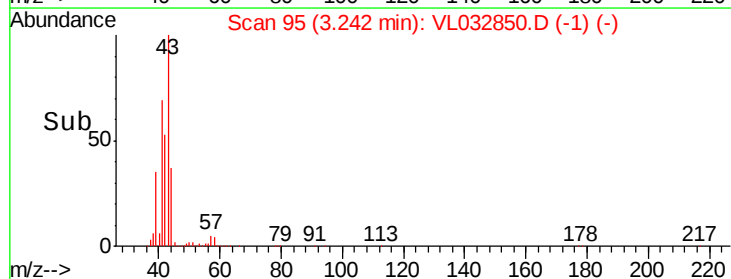
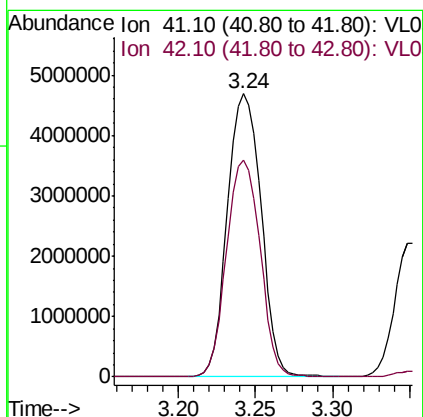
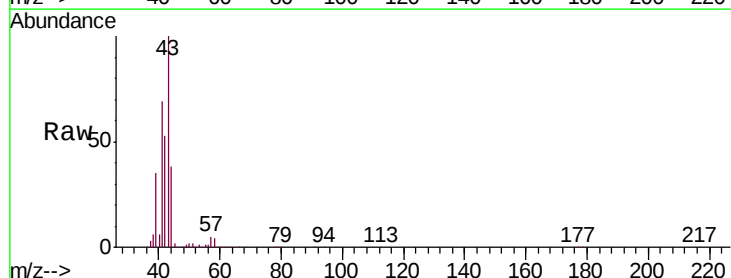
Acq: 30 Nov 2018 15:49

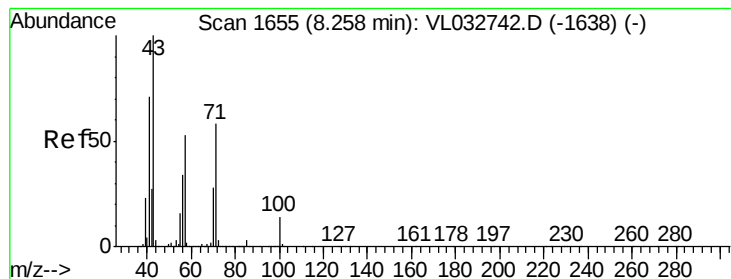
Tgt Ion: 41 Resp: 7079794

Ion Ratio Lower Upper

41 100

42 76.8 55.0 82.6





#10

Heptane

Concen: 9.717 ppbv

RT: 8.27 min Scan# 1659

Delta R.T. 0.01 min

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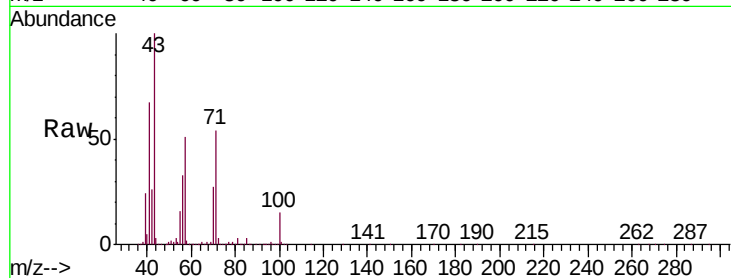
SITE-D-DUP

Tgt Ion: 43 Resp: 1710794

Ion Ratio Lower Upper

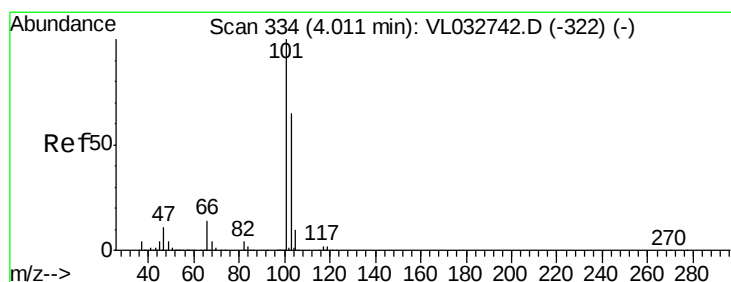
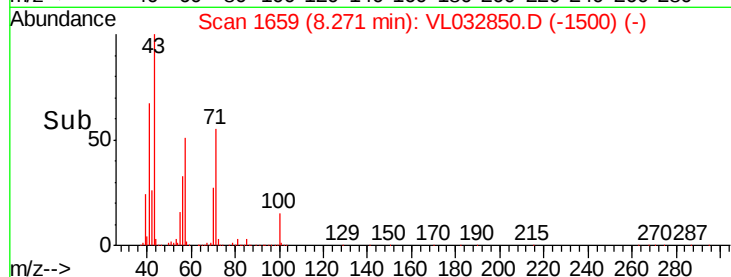
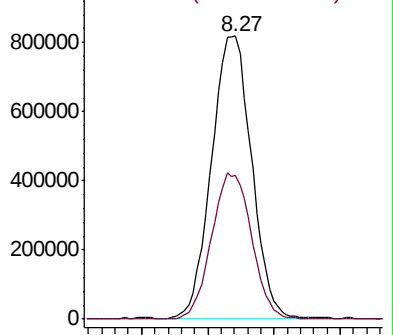
43 100

57 51.8 41.8 62.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#11

Trichlorofluoromethane

Concen: 0.258 ppbv

RT: 4.02 min Scan# 336

Delta R.T. 0.01 min

Lab File: VL032850.D

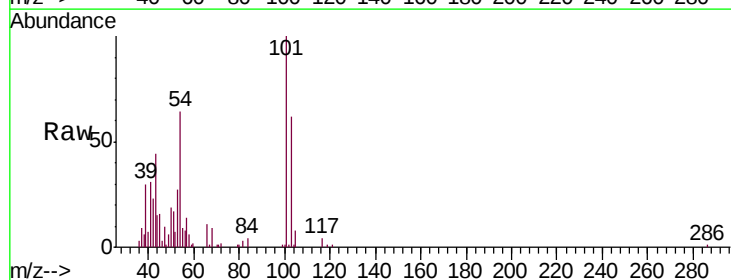
Acq: 30 Nov 2018 15:49

Tgt Ion: 101 Resp: 50785

Ion Ratio Lower Upper

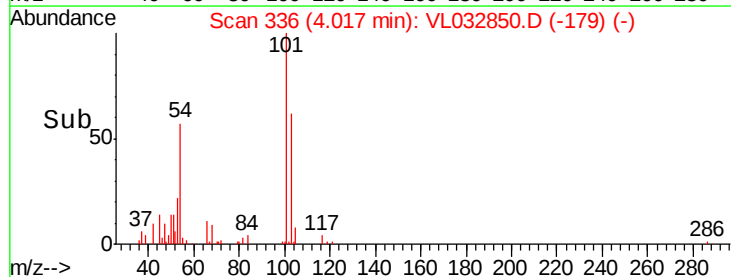
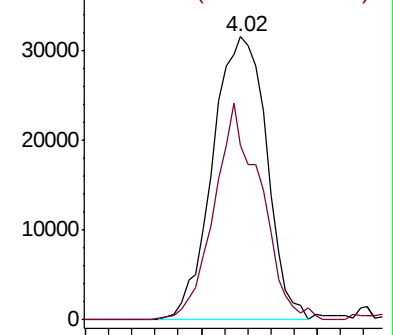
101 100

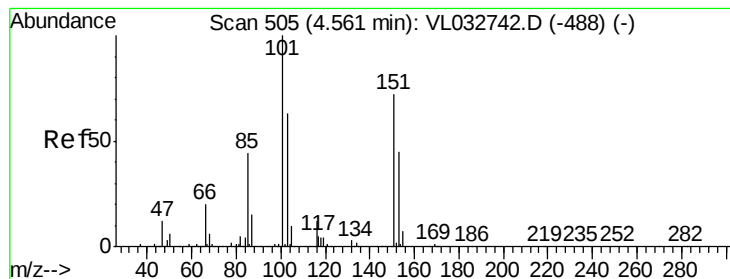
103 61.0 51.6 77.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.058 ppbv

RT: 4.56 min Scan# 505

Delta R.T. -0.00 min

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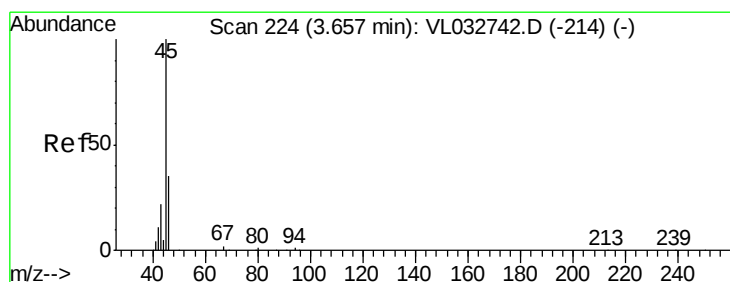
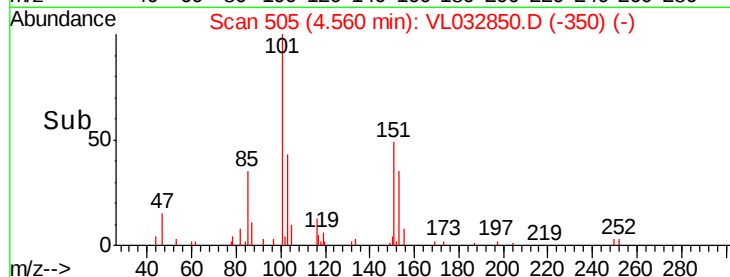
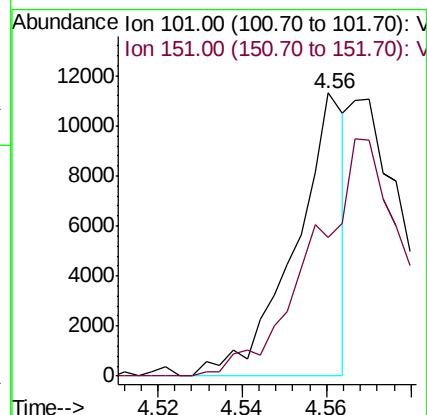
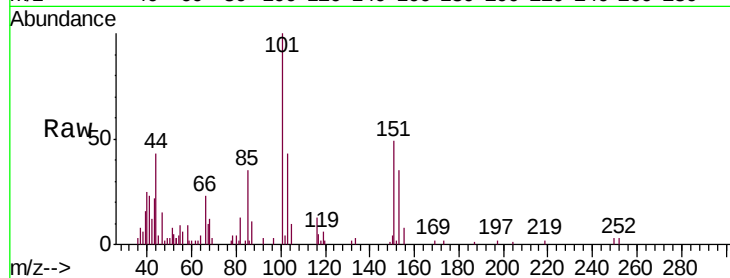
SITE-D-DUP

Tgt Ion: 101 Resp: 9322

Ion Ratio Lower Upper

101 100

151 0.0 56.7 85.1#



#13

Ethanol

Concen: 39.139 ppbv

RT: 3.65 min Scan# 223

Delta R.T. -0.00 min

Lab File: VL032850.D

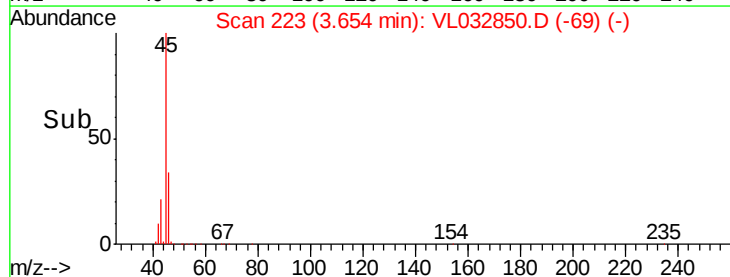
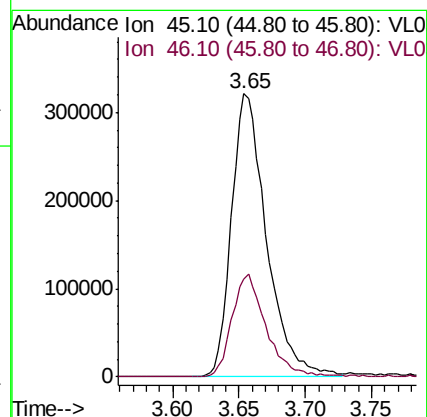
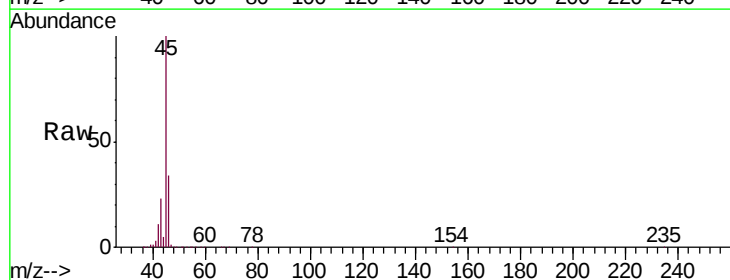
Acq: 30 Nov 2018 15:49

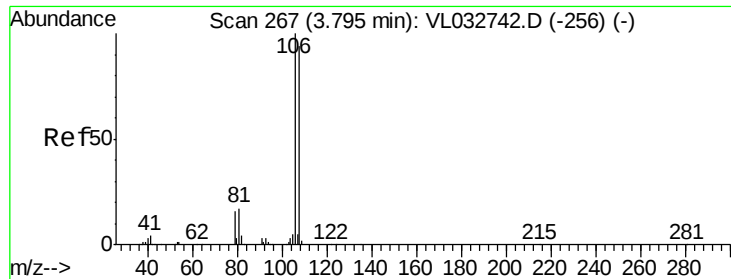
Tgt Ion: 45 Resp: 591186

Ion Ratio Lower Upper

45 100

46 35.5 14.5 57.9





#14

Bromoethene

Concen: 0.053 ppbv

RT: 3.80 min Scan# 267

Delta R.T. -0.00 min

Lab File: VL032850.D

Acq: 30 Nov 2018 15:49

Instrument :

MSVOA_L

ClientSampleId :

SITE-D-DUP

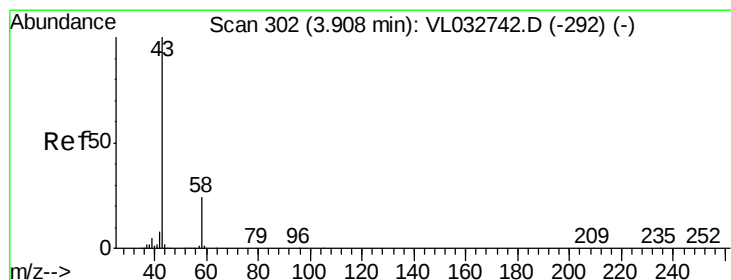
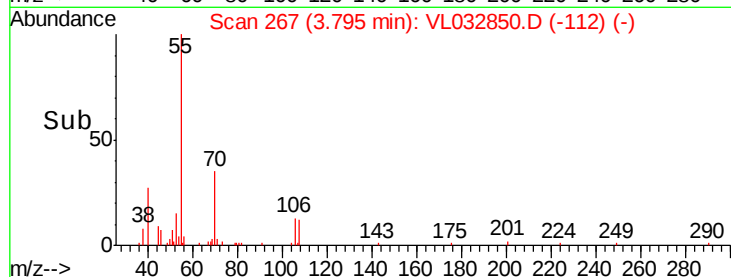
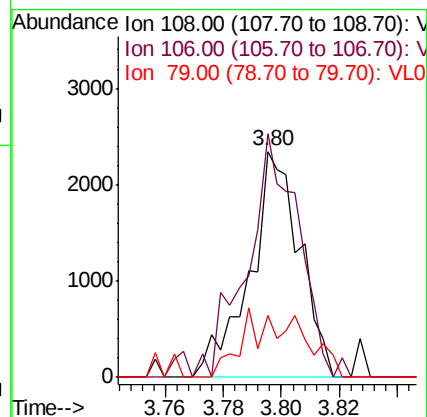
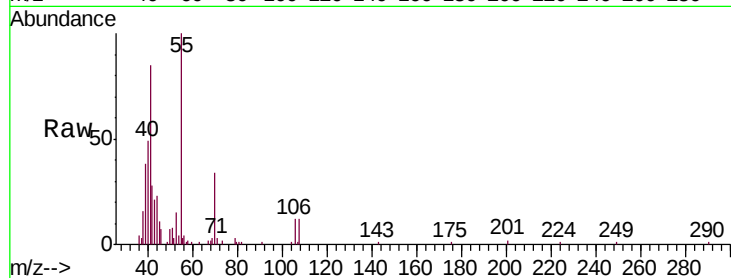
Tgt Ion: 108 Resp: 2818

Ion Ratio Lower Upper

108 100

106 114.2 84.9 127.3

79 34.4 14.2 21.4#



#15

Acetone

Concen: 24.587 ppbv

RT: 3.90 min Scan# 301

Delta R.T. -0.00 min

Lab File: VL032850.D

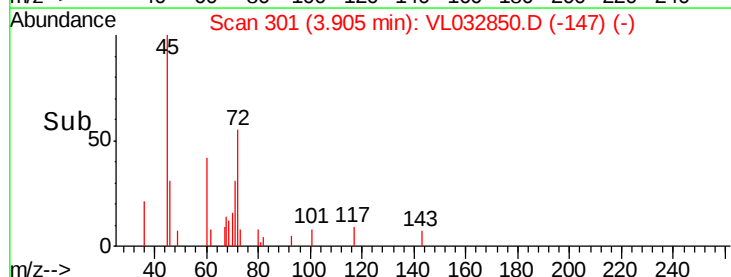
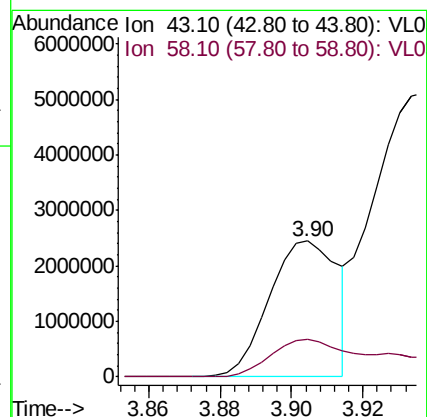
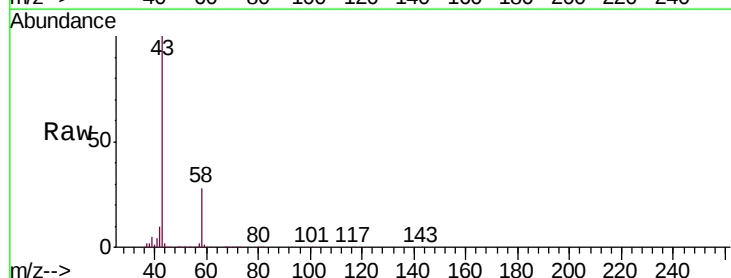
Acq: 30 Nov 2018 15:49

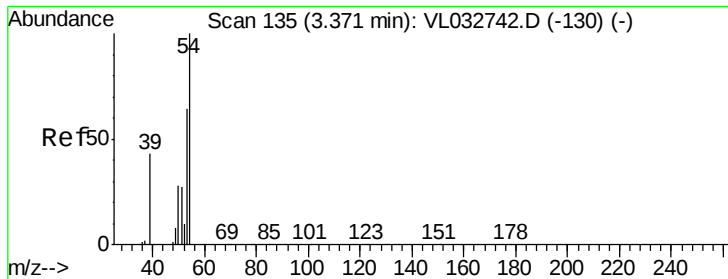
Tgt Ion: 43 Resp: 3263720

Ion Ratio Lower Upper

43 100

58 49.2 21.1 31.7#

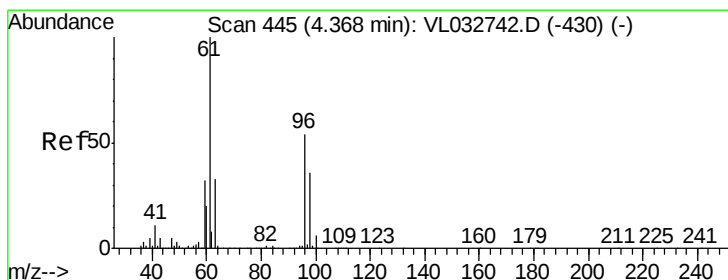
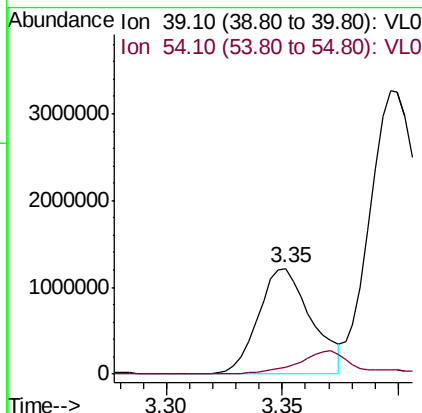
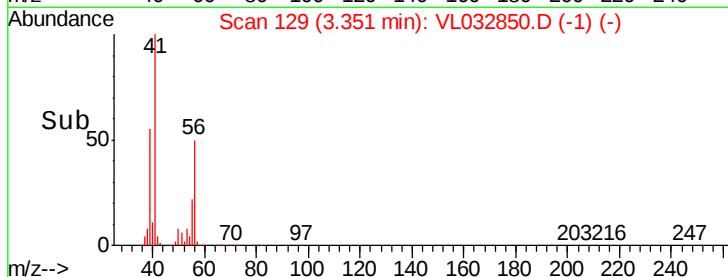
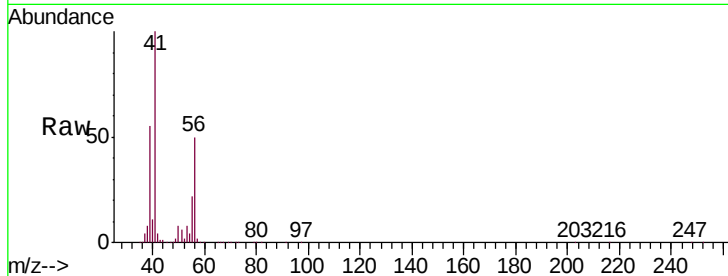




#16
 1,3-Butadiene
 Concen: 37.517 ppbv
 RT: 3.35 min Scan# 129
 Delta R.T. -0.02 min
 Lab File: VL032850.D
 Acq: 30 Nov 2018 15:49

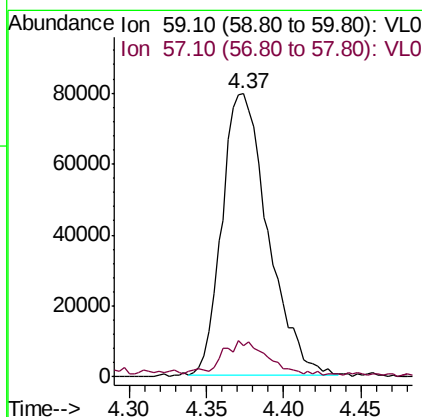
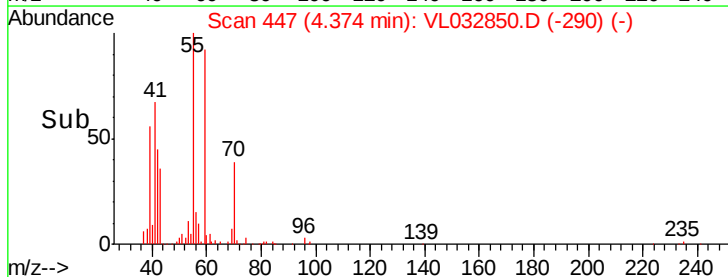
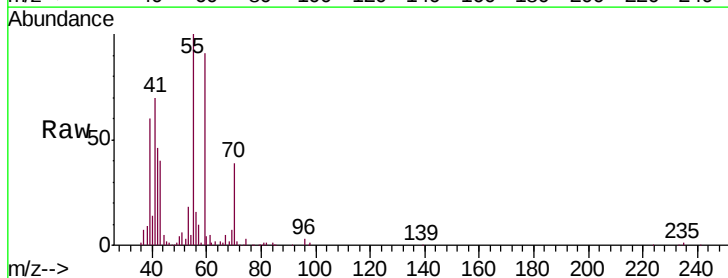
Instrument :
 MSVOA_L
 ClientSampleId :
 SITE-D-DUP

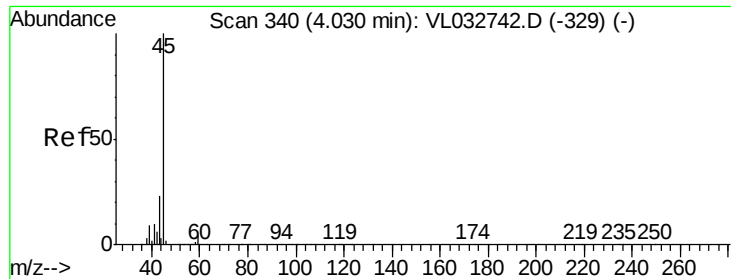
Tgt Ion: 39 Resp: 1928573
 Ion Ratio Lower Upper
 39 100
 54 24.7 68.9 103.3#



#17
 tert-Butyl alcohol
 Concen: 3.933 ppbv
 RT: 4.37 min Scan# 447
 Delta R.T. 0.01 min
 Lab File: VL032850.D
 Acq: 30 Nov 2018 15:49

Tgt Ion: 59 Resp: 163740
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.8#





#19

Isopropyl Alcohol

Concen: 0.470 ppbv

RT: 4.04 min Scan# 342

Delta R.T. 0.01 min

Lab File: VL032850.D

Acq: 30 Nov 2018 15:49

Instrument :

MSVOA_L

ClientSampleId :

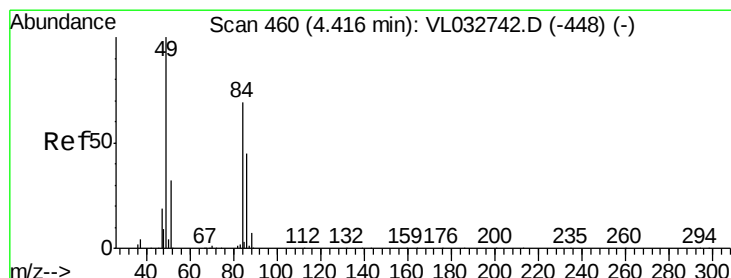
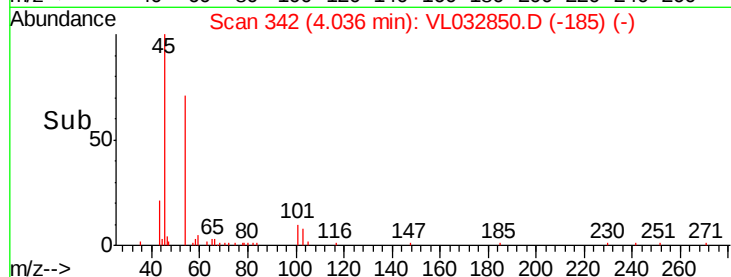
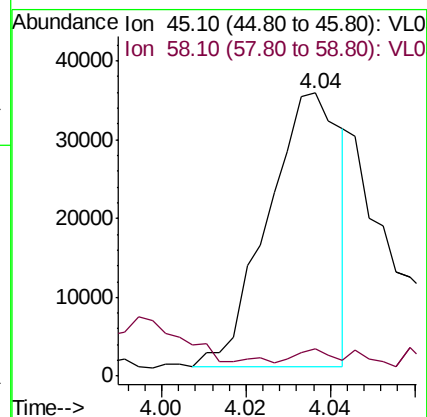
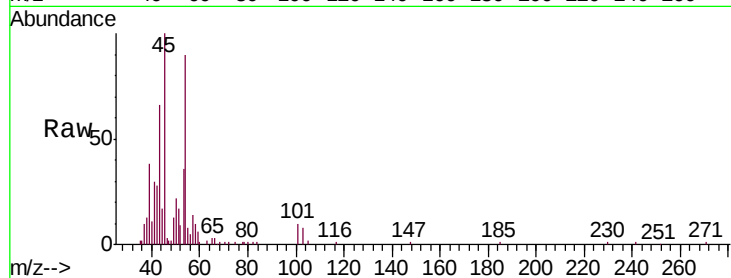
SITE-D-DUP

Tgt Ion: 45 Resp: 41598

Ion Ratio Lower Upper

45 100

58 171.9 1.4 2.0#



#20

Methylene Chloride

Concen: 3.531 ppbv

RT: 4.42 min Scan# 462

Delta R.T. 0.01 min

Lab File: VL032850.D

Acq: 30 Nov 2018 15:49

Tgt Ion: 84 Resp: 242649

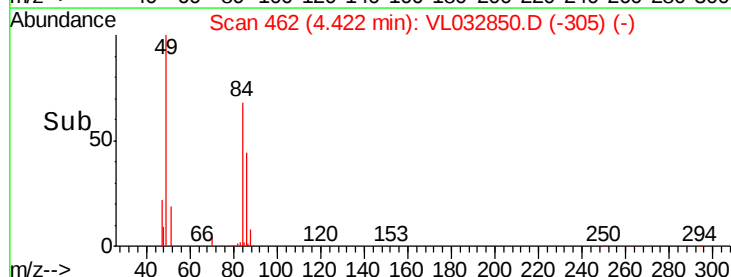
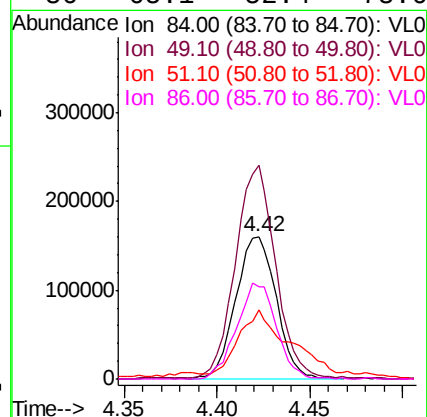
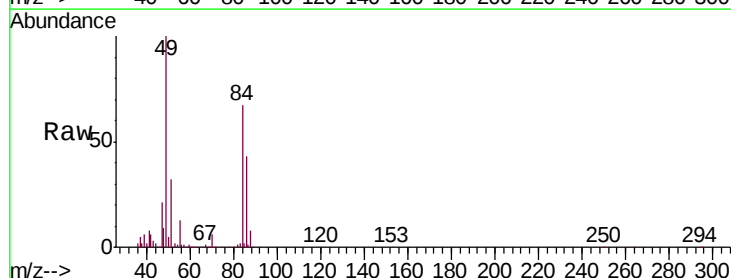
Ion Ratio Lower Upper

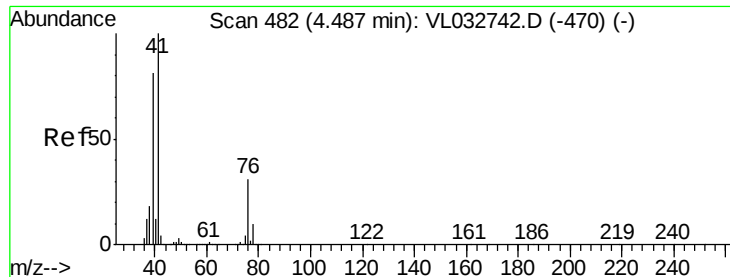
84 100

49 150.1 115.8 173.6

51 44.2 36.9 55.3

86 65.1 52.4 78.6





#21

Allyl Chloride

Concen: 2.226 ppbv

RT: 4.44 min Scan# 469

Delta R.T. -0.04 min

Lab File: VL032850.D

Acq: 30 Nov 2018 15:49

Instrument :

MSVOA_L

ClientSampleId :

SITE-D-DUP

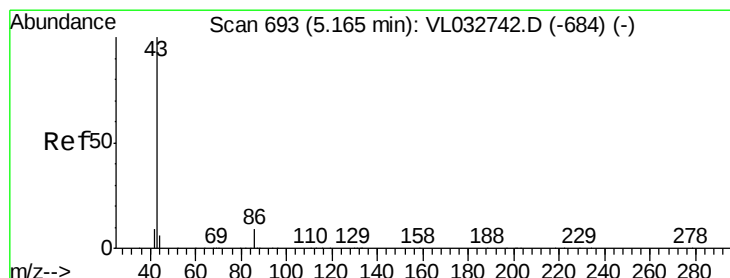
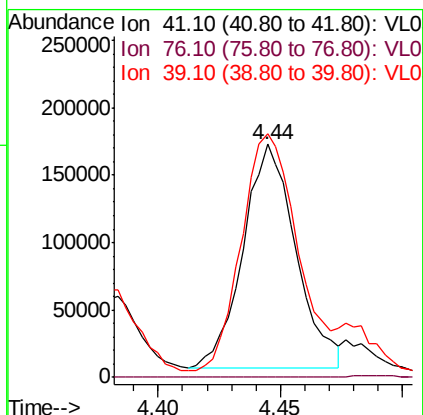
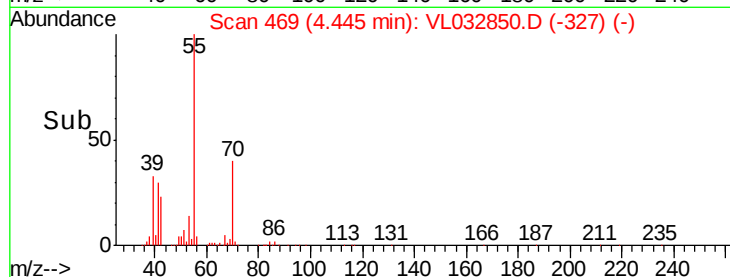
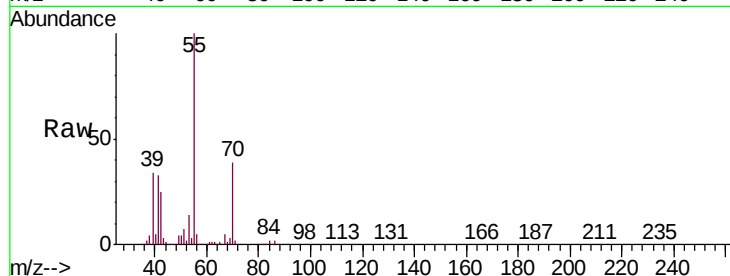
Tgt Ion: 41 Resp: 248332

Ion Ratio Lower Upper

41 100

76 0.0 24.4 36.6#

39 130.7 63.5 95.3#



#23

Vinyl Acetate

Concen: 20.107 ppbv

RT: 5.15 min Scan# 689

Delta R.T. -0.01 min

Lab File: VL032850.D

Acq: 30 Nov 2018 15:49

Tgt Ion: 43 Resp: 4865135

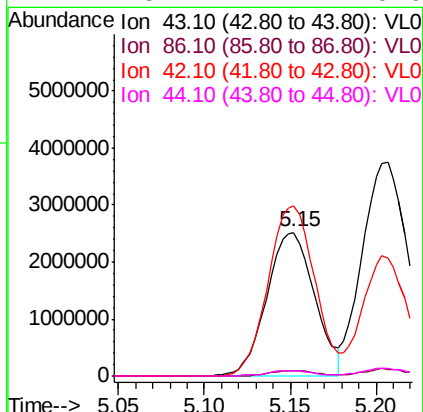
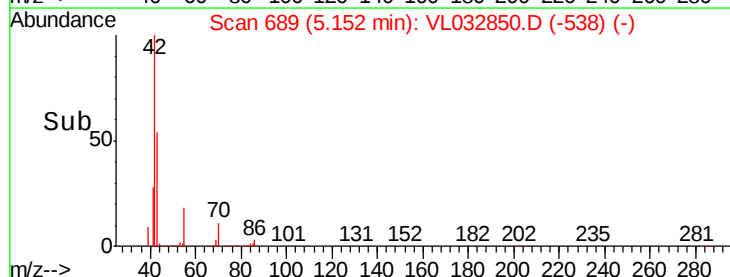
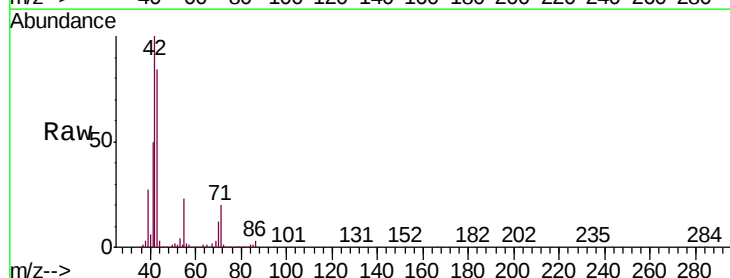
Ion Ratio Lower Upper

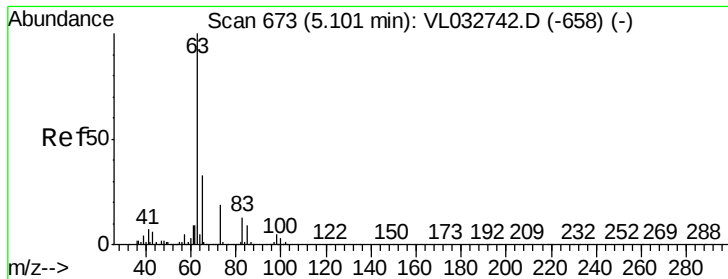
43 100

86 4.0 6.2 9.4#

42 118.4 7.8 11.6#

44 3.2 4.4 6.6#





#24

1,1-Dichloroethane

Concen: 0.054 ppbv

RT: 5.21 min Scan# 707

Delta R.T. 0.11 min

Lab File: VL032850.D

Acq: 30 Nov 2018 15:49

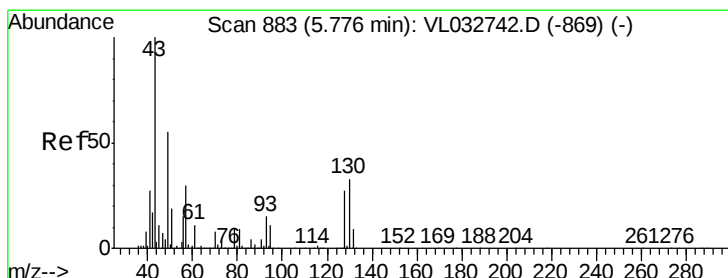
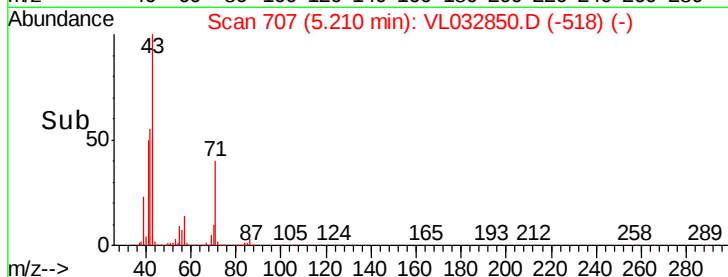
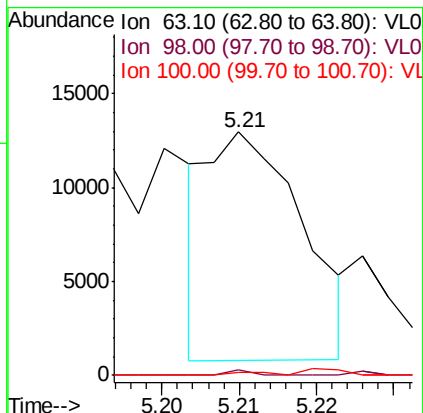
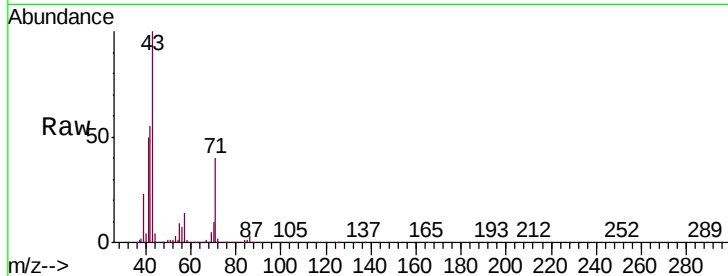
Instrument :

MSVOA_L

ClientSampleId :

SITE-D-DUP

Tgt Ion:	63	Resp:	10307
Ion	Ratio	Lower	Upper
63	100		
98	3.8	2.3	6.8
100	2.1	1.4	4.2



#25

Ethyl Acetate

Concen: 7.272 ppbv

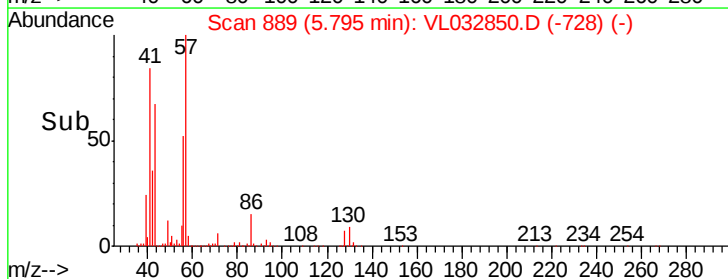
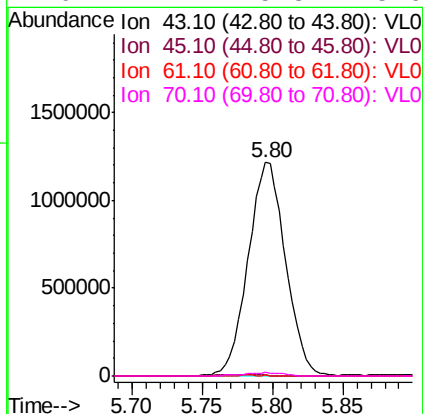
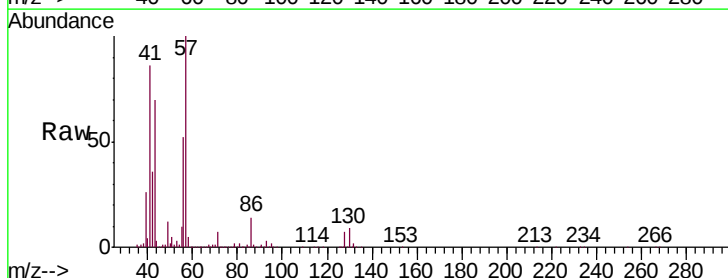
RT: 5.80 min Scan# 889

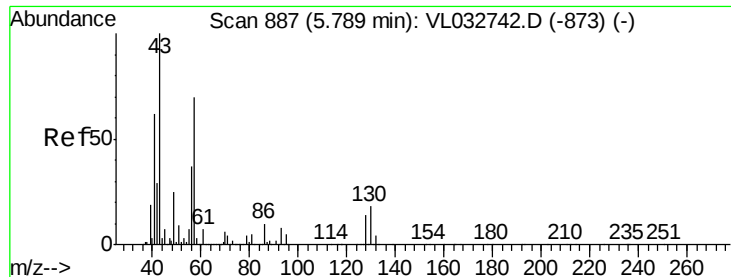
Delta R.T. 0.02 min

Lab File: VL032850.D

Acq: 30 Nov 2018 15:49

Tgt Ion:	43	Resp:	2249787
Ion	Ratio	Lower	Upper
43	100		
45	1.0	7.9	11.9#
61	0.5	7.8	11.6#
70	1.7	5.8	8.6#



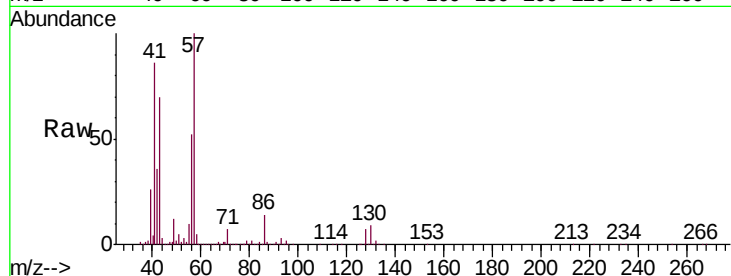


#26
Hexane
Concen: 23.310 ppbv
RT: 5.80 min Scan# 889
Delta R.T. 0.01 min
Lab File: VL032850.D
Acq: 30 Nov 2018 15:49

Instrument :
MSVOA_L
ClientSampleId :
SITE-D-DUP

Tgt Ion: 57 Resp: 3210196

Ion	Ratio	Lower	Upper
57	100		
41	87.4	70.3	105.5
43	70.2	174.0	261.0#
56	52.8	42.3	63.5



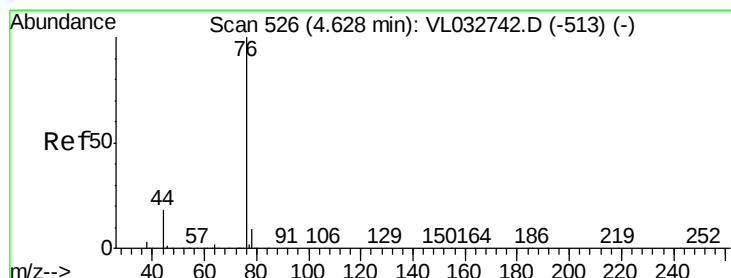
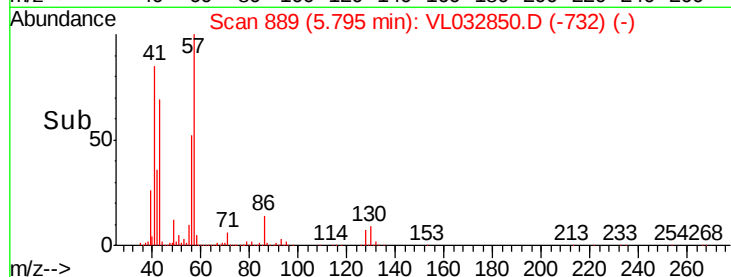
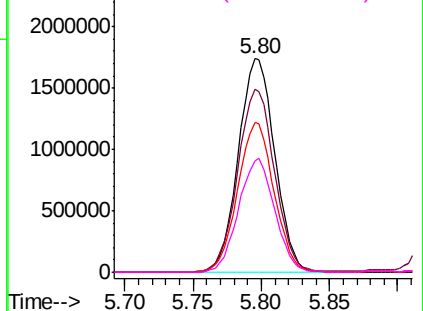
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

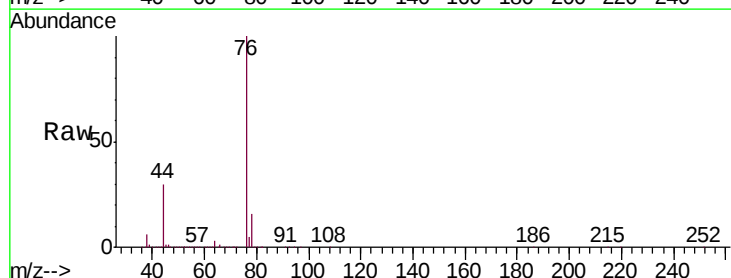
Ion 56.10 (55.80 to 56.80): VL0



#27
Carbon Disulfide
Concen: 87.678 ppbv
RT: 4.63 min Scan# 527
Delta R.T. 0.00 min
Lab File: VL032850.D
Acq: 30 Nov 2018 15:49

Tgt Ion: 76 Resp: 15311285

Ion	Ratio	Lower	Upper
76	100		
44	25.2	14.4	21.6#
78	12.7	7.7	11.5#

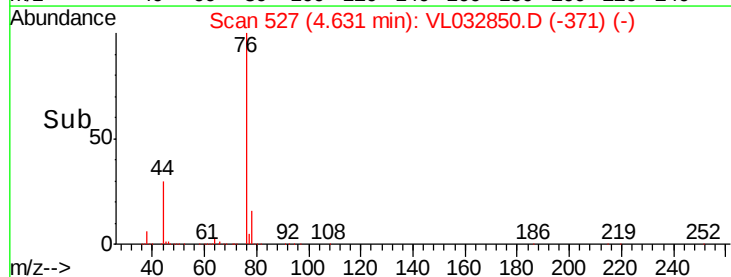
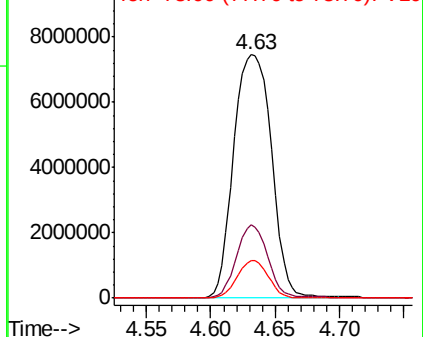


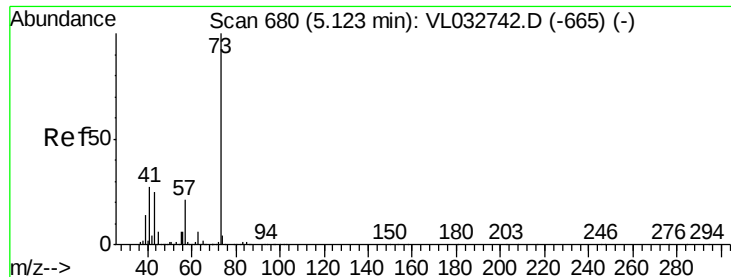
Abundance

Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0





#28

Methyl tert-Butyl Ether

Concen: 0.821 ppbv

RT: 5.13 min Scan# 681

Delta R.T. 0.00 min

Lab File: VL032850.D

Acq: 30 Nov 2018 15:49

Instrument :

MSVOA_L

ClientSampleId :

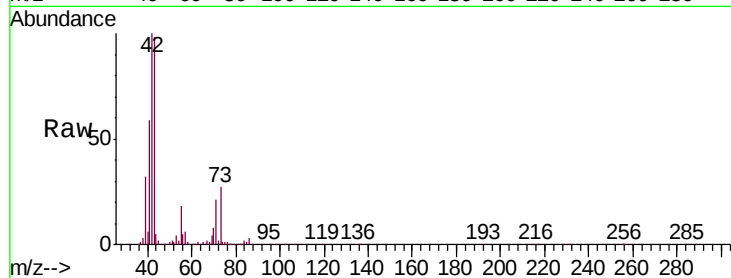
SITE-D-DUP

Tgt Ion: 73 Resp: 180388

Ion Ratio Lower Upper

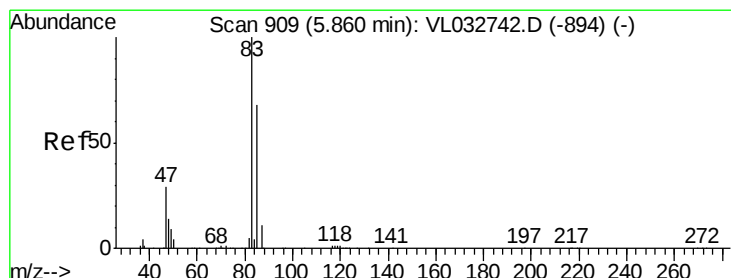
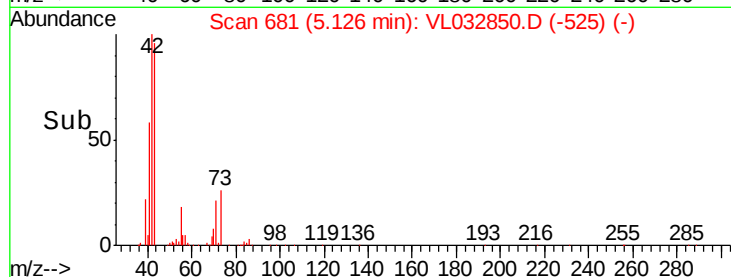
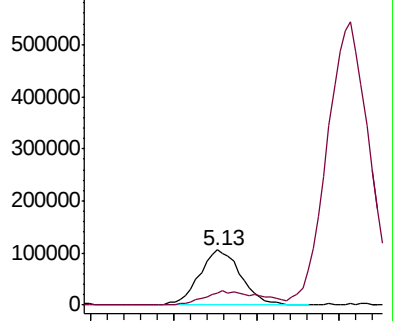
73 100

57 0.0 17.5 26.3#



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#29

Chloroform

Concen: 0.208 ppbv

RT: 5.86 min Scan# 910

Delta R.T. 0.00 min

Lab File: VL032850.D

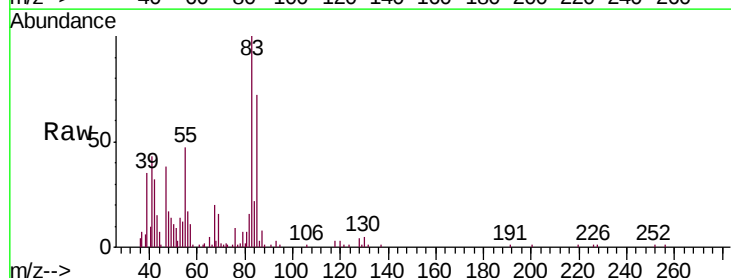
Acq: 30 Nov 2018 15:49

Tgt Ion: 83 Resp: 51032

Ion Ratio Lower Upper

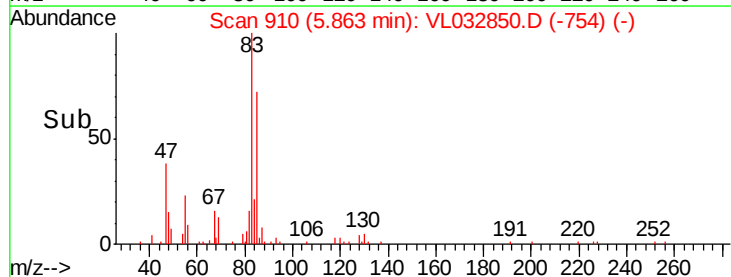
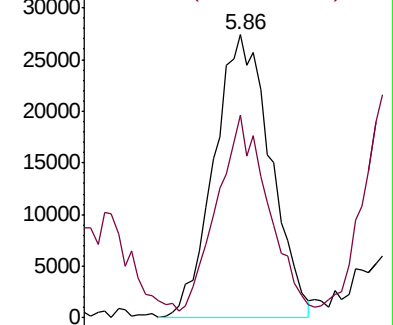
83 100

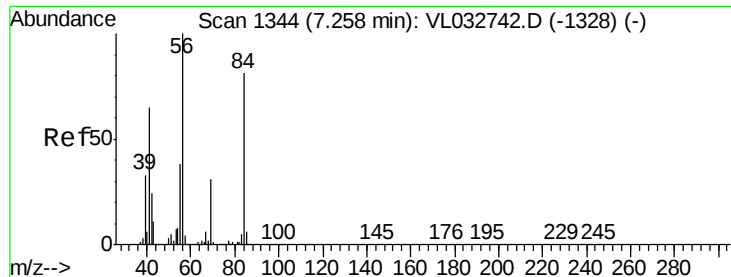
85 66.9 54.2 81.4



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

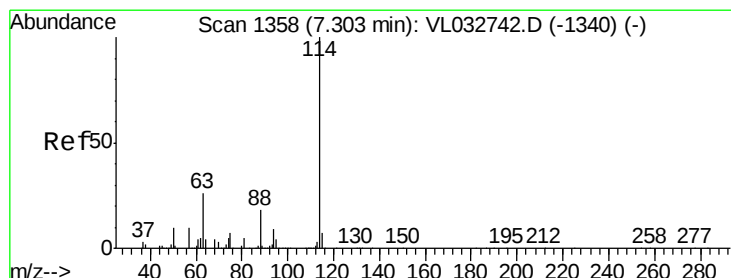
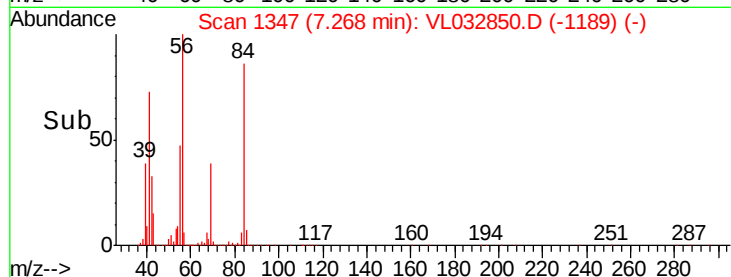
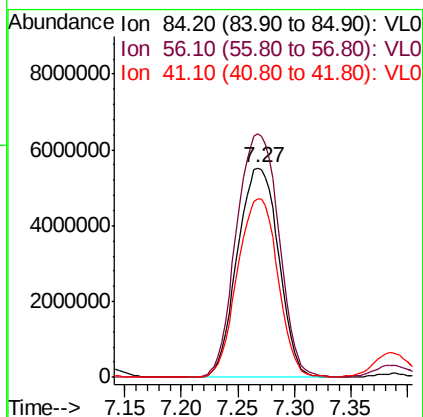
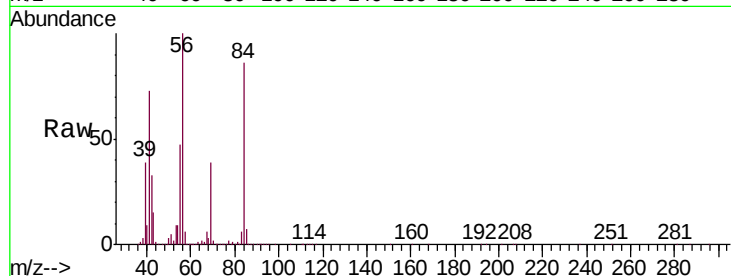




#30
Cyclohexane
Concen: 116.351 ppbv
RT: 7.27 min Scan# 1347
Delta R.T. 0.01 min
Lab File: VL032850.D
Acq: 30 Nov 2018 15:49

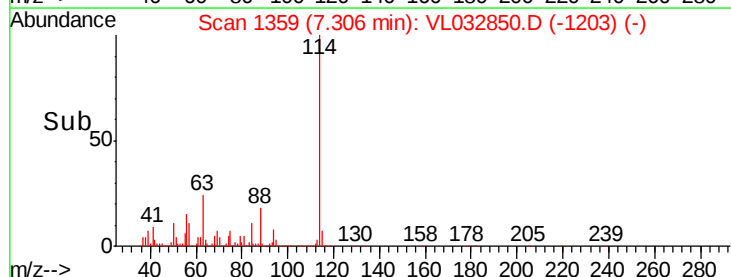
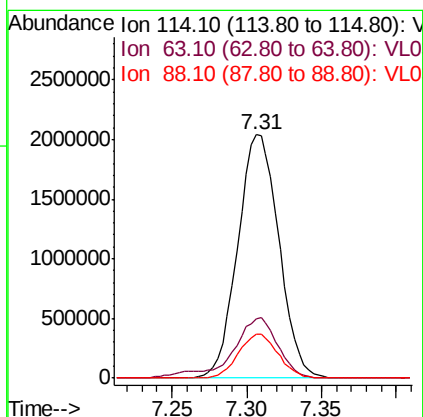
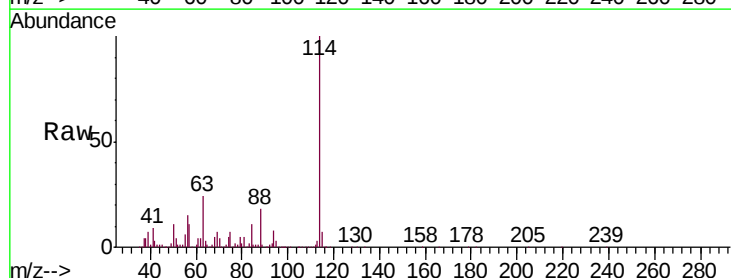
Instrument :
MSVOA_L
ClientSampleId :
SITE-D-DUP

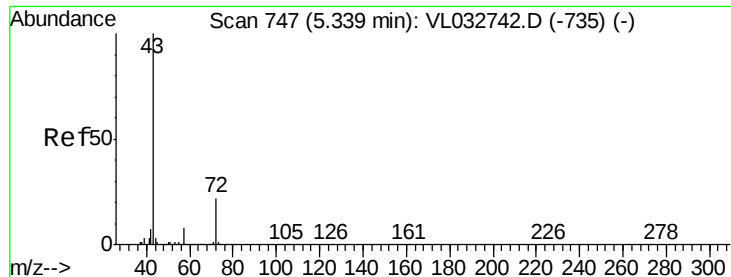
Tgt Ion: 84 Resp:14014830
Ion Ratio Lower Upper
84 100
56 120.0 105.0 157.4
41 83.5 65.3 97.9



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.31 min Scan# 1359
Delta R.T. 0.00 min
Lab File: VL032850.D
Acq: 30 Nov 2018 15:49

Tgt Ion:114 Resp: 3896012
Ion Ratio Lower Upper
114 100
63 27.6 20.9 31.3
88 17.5 14.4 21.6





#34

2-Butanone

Concen: 23.521 ppbv

RT: 5.34 min Scan# 746

Delta R.T. -0.00 min

Lab File: VL032850.D

Acq: 30 Nov 2018 15:49

Instrument :

MSVOA_L

ClientSampleId :

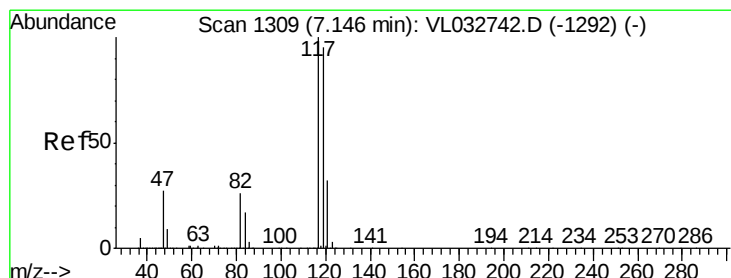
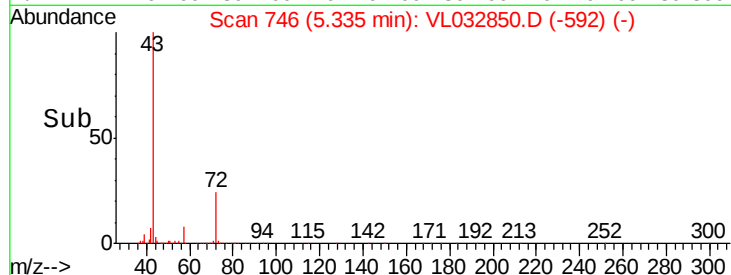
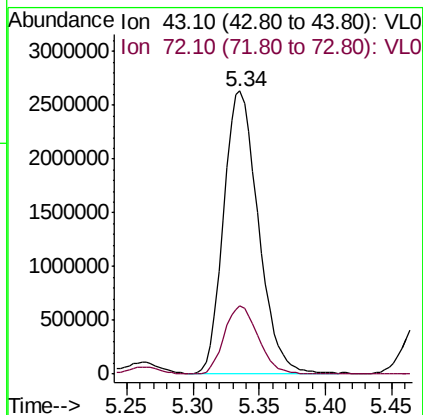
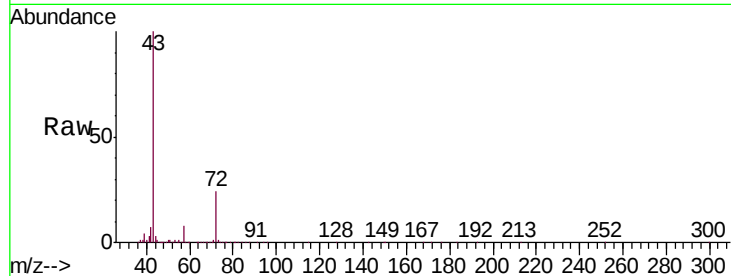
SITE-D-DUP

Tgt Ion: 43 Resp: 4752998

Ion Ratio Lower Upper

43 100

72 23.7 18.4 27.6



#35

Carbon Tetrachloride

Concen: 0.093 ppbv

RT: 7.15 min Scan# 1310

Delta R.T. 0.00 min

Lab File: VL032850.D

Acq: 30 Nov 2018 15:49

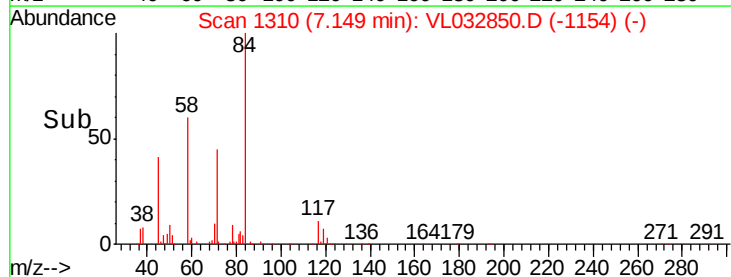
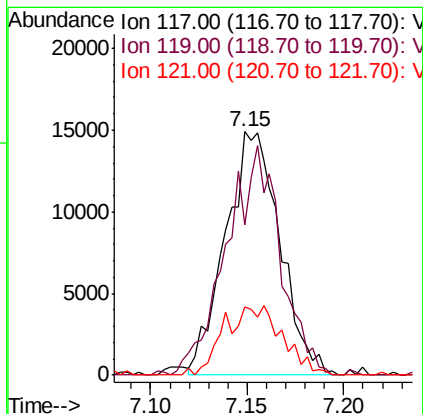
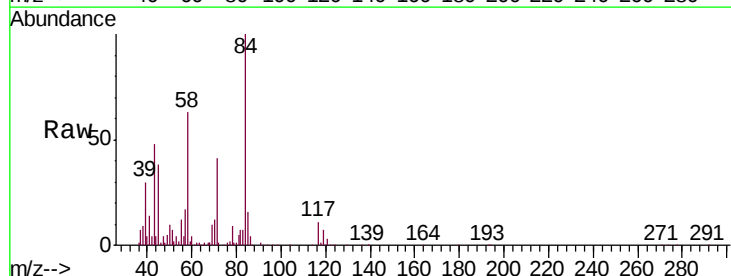
Tgt Ion: 117 Resp: 29201

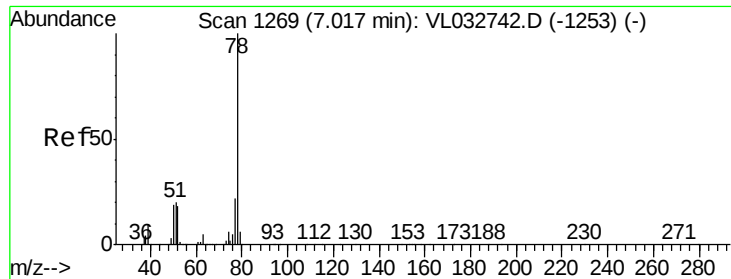
Ion Ratio Lower Upper

117 100

119 61.9 76.1 114.1#

121 27.8 25.4 38.0

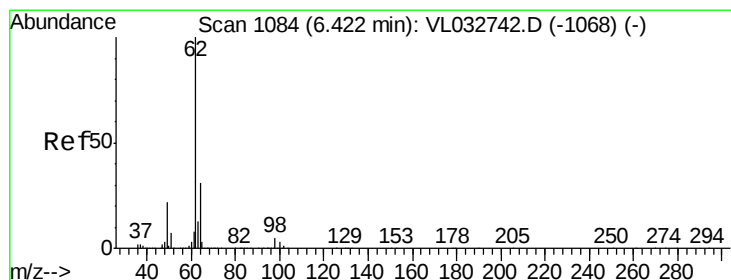
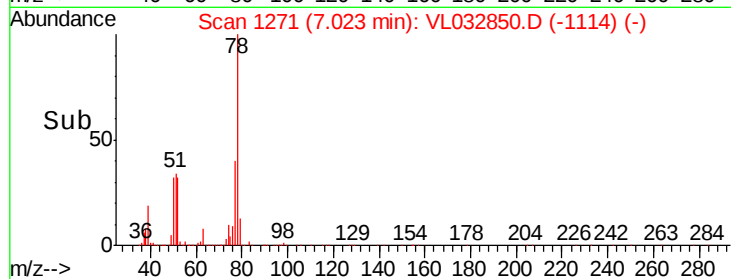
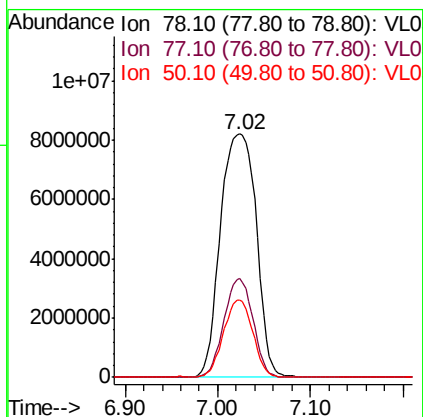
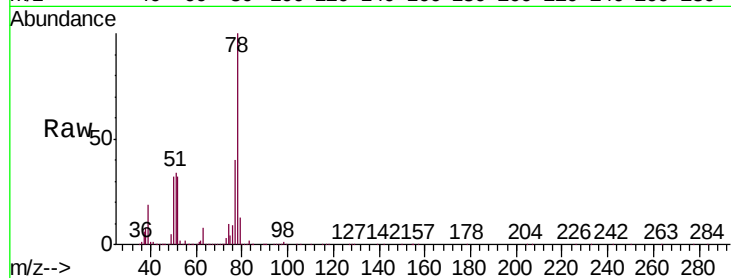




#36
Benzene
Concen: 70.656 ppbv
RT: 7.02 min Scan# 1271
Delta R.T. 0.01 min
Lab File: VL032850.D
Acq: 30 Nov 2018 15:49

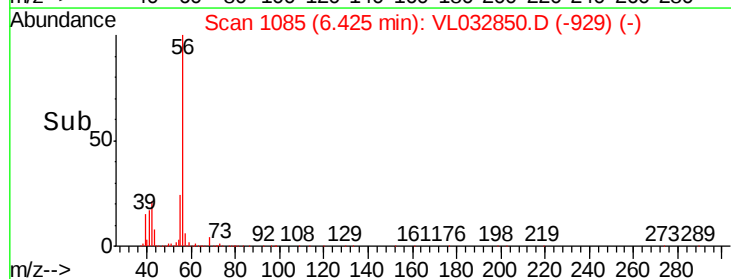
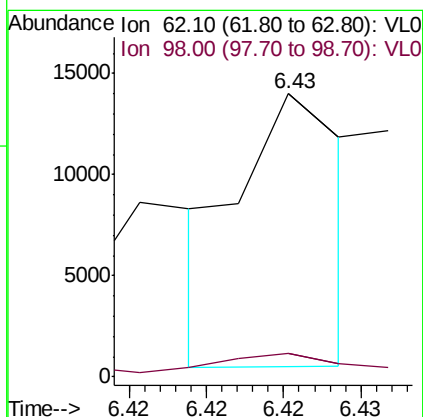
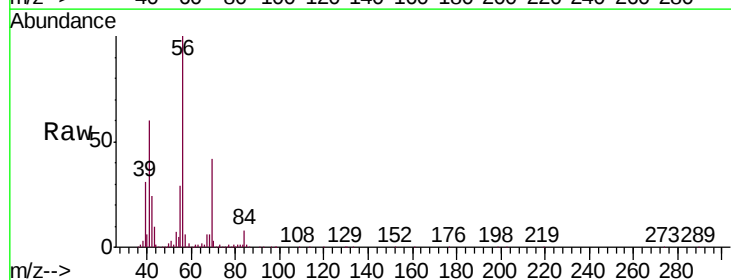
Instrument :
MSVOA_L
ClientSampleId :
SITE-D-DUP

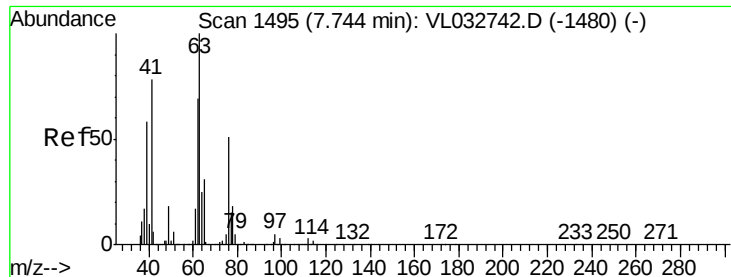
Tgt Ion: 78 Resp: 21920633
Ion Ratio Lower Upper
78 100
77 40.4 17.8 26.8#
50 31.4 15.4 23.0#



#37
1,2-Dichloroethane
Concen: 0.030 ppbv
RT: 6.43 min Scan# 1085
Delta R.T. 0.00 min
Lab File: VL032850.D
Acq: 30 Nov 2018 15:49

Tgt Ion: 62 Resp: 6350
Ion Ratio Lower Upper
62 100
98 19.4 4.5 6.7#





#39

1,2-Dichloropropane

Concen: 0.102 ppbv

RT: 8.01 min Scan# 1578

Delta R.T. 0.27 min

Lab File: VL032850.D

Acq: 30 Nov 2018 15:49

Instrument :

MSVOA_L

ClientSampleId :

SITE-D-DUP

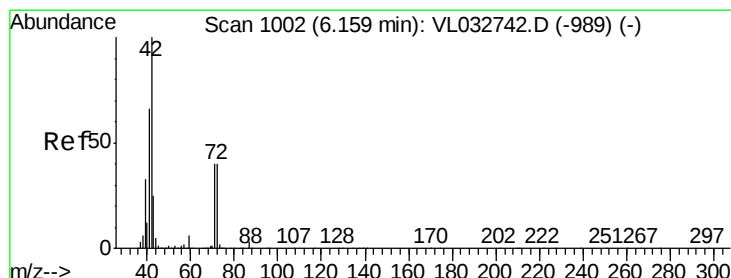
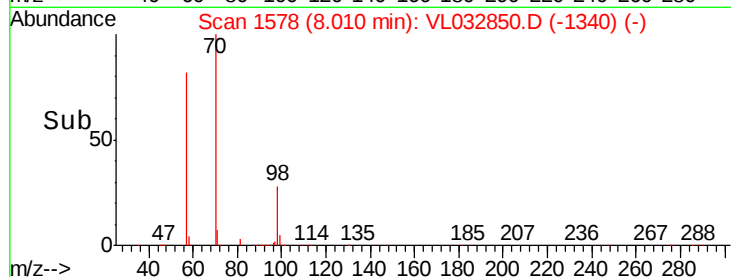
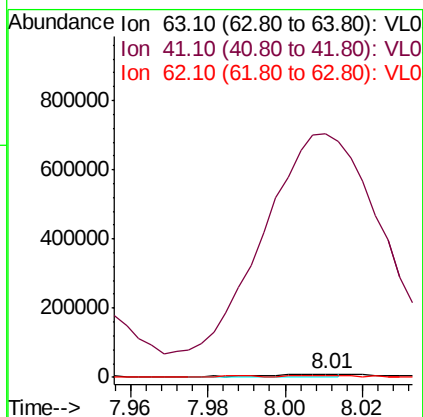
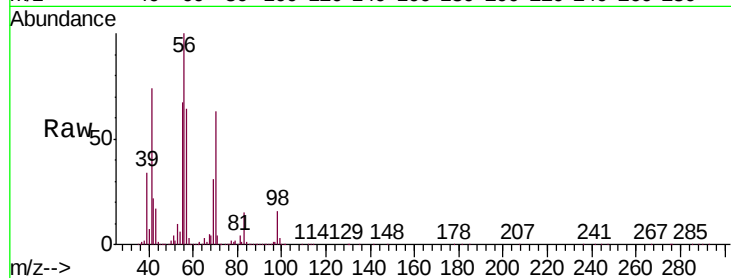
Tgt Ion: 63 Resp: 12081

Ion Ratio Lower Upper

63 100

41 7490.5 62.0 93.0#

62 26.8 55.4 83.2#



#41

Tetrahydrofuran

Concen: 0.145 ppbv

RT: 6.10 min Scan# 983

Delta R.T. -0.06 min

Lab File: VL032850.D

Acq: 30 Nov 2018 15:49

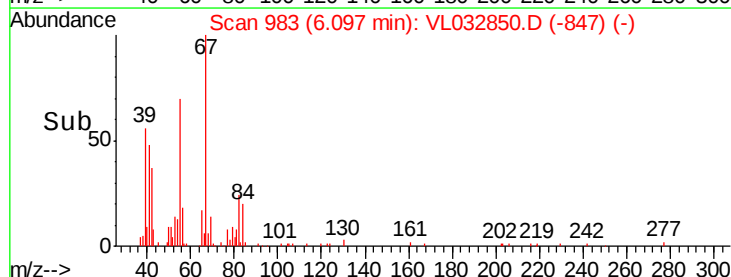
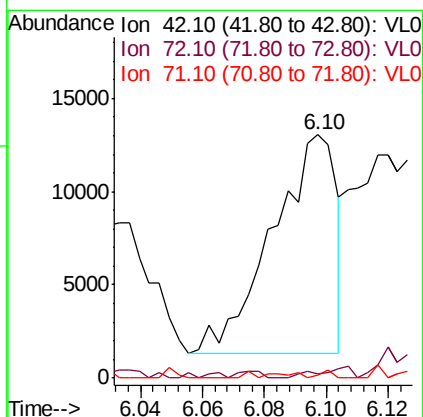
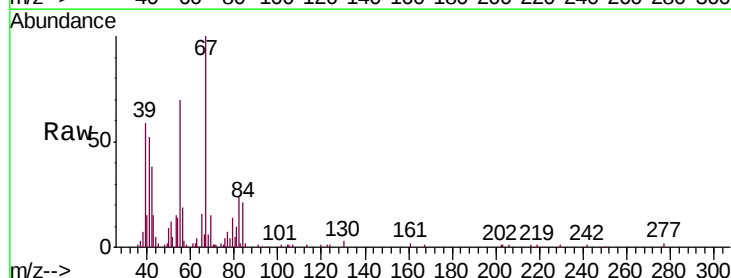
Tgt Ion: 42 Resp: 16780

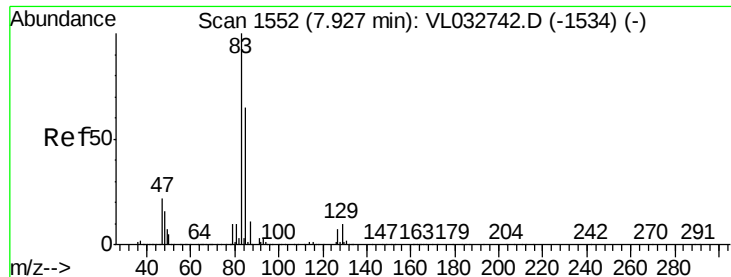
Ion Ratio Lower Upper

42 100

72 68.1 32.4 48.6#

71 62.0 31.6 47.4#





#42

Bromodichloromethane

Concen: 1.364 ppbv

RT: 7.94 min Scan# 1556

Delta R.T. 0.01 min

Lab File: VL032850.D

Acq: 30 Nov 2018 15:49

Instrument :

MSVOA_L

ClientSampleId :

SITE-D-DUP

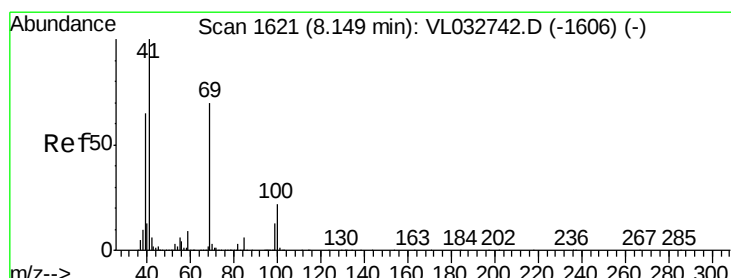
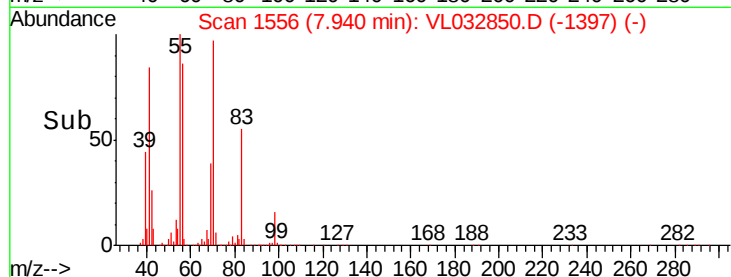
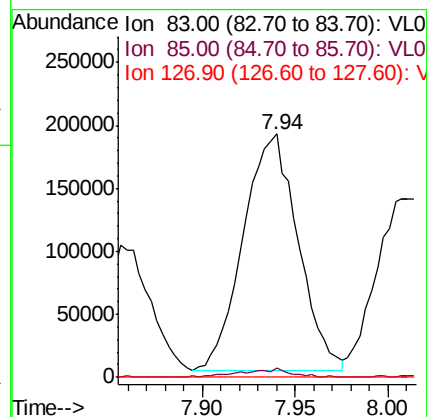
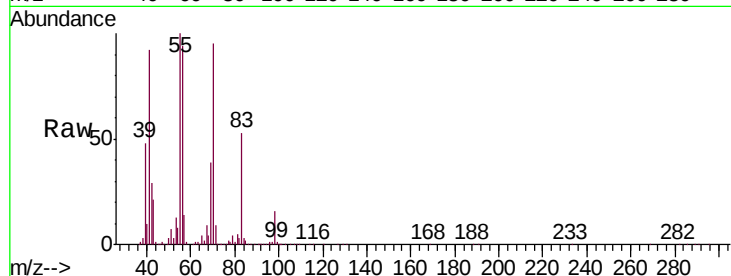
Tgt Ion: 83 Resp: 386165

Ion Ratio Lower Upper

83 100

85 3.5 51.8 77.8#

127 0.3 5.9 8.9#



#43

Methyl Methacrylate

Concen: 0.161 ppbv

RT: 8.13 min Scan# 1614

Delta R.T. -0.02 min

Lab File: VL032850.D

Acq: 30 Nov 2018 15:49

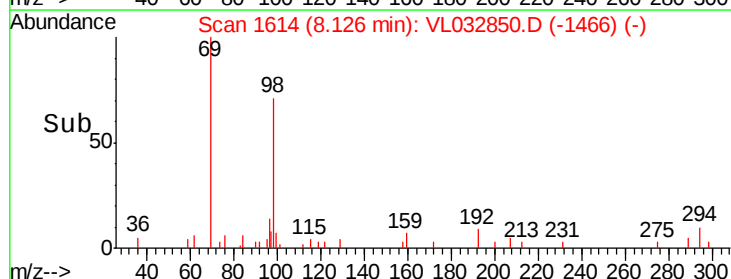
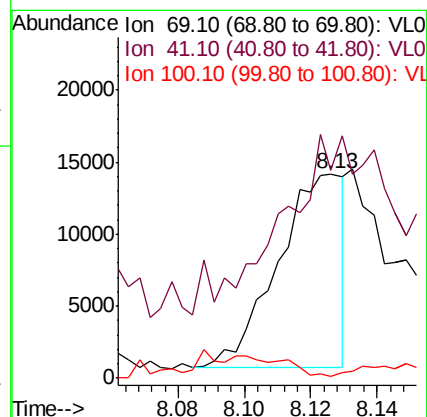
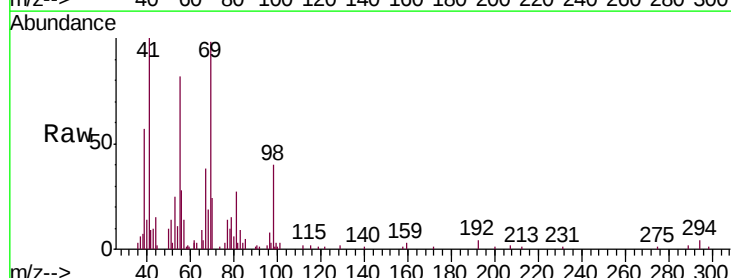
Tgt Ion: 69 Resp: 18614

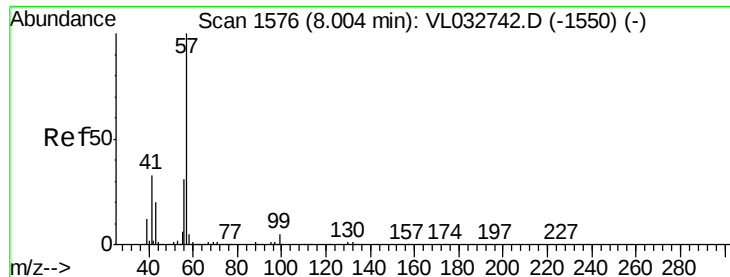
Ion Ratio Lower Upper

69 100

41 0.0 115.0 172.4#

100 0.0 25.4 38.0#

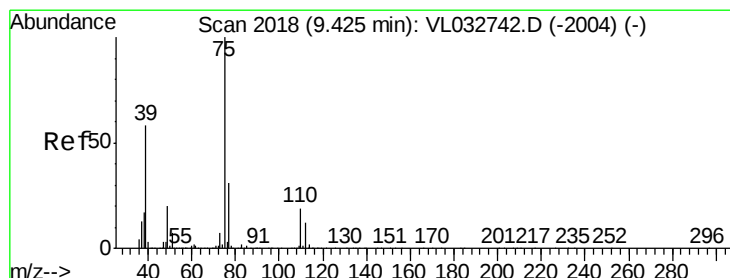
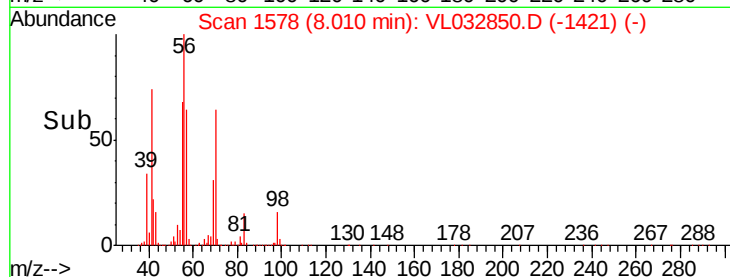
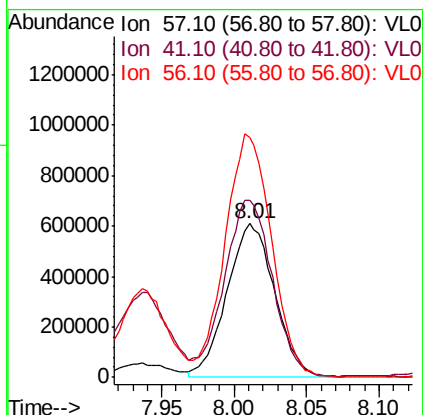
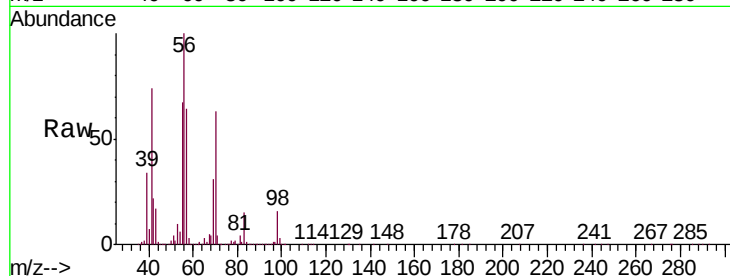




#44
 2,2,4-Trimethylpentane
 Concen: 2.655 ppbv
 RT: 8.01 min Scan# 1578
 Delta R.T. 0.01 min
 Lab File: VL032850.D
 Acq: 30 Nov 2018 15:49

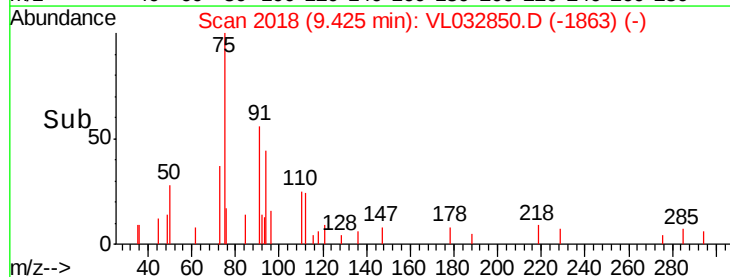
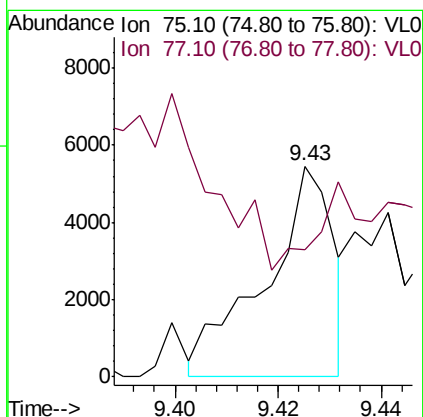
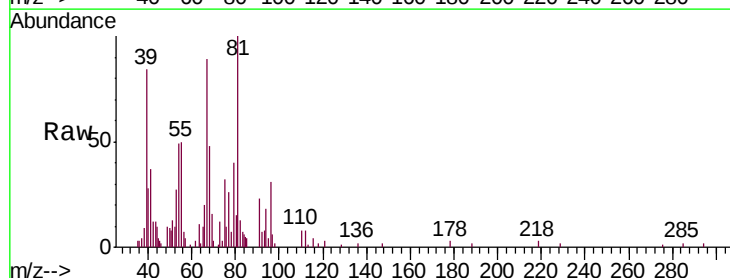
Instrument :
 MSVOA_L
 ClientSampleId :
 SITE-D-DUP

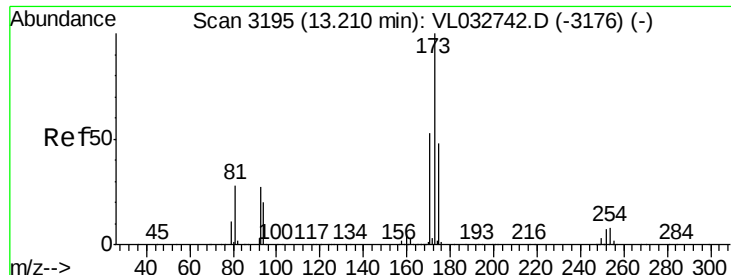
Tgt Ion: 57 Resp: 1376342
 Ion Ratio Lower Upper
 57 100
 41 116.4 26.6 39.8#
 56 155.5 24.8 37.2#



#45
 t-1,3-Dichloropropene
 Concen: 0.032 ppbv
 RT: 9.43 min Scan# 2018
 Delta R.T. -0.00 min
 Lab File: VL032850.D
 Acq: 30 Nov 2018 15:49

Tgt Ion: 75 Resp: 4971
 Ion Ratio Lower Upper
 75 100
 77 60.4 24.6 36.8#





#49

Bromoform

Concen: 0.032 ppbv

RT: 13.22 min Scan# 3197

Delta R.T. 0.01 min

Lab File: VL032850.D

Acq: 30 Nov 2018 15:49

Instrument :

MSVOA_L

ClientSampleId :

SITE-D-DUP

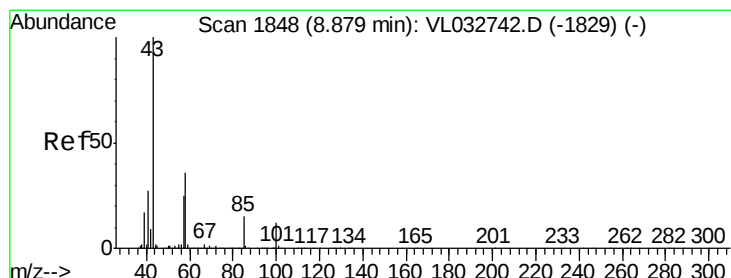
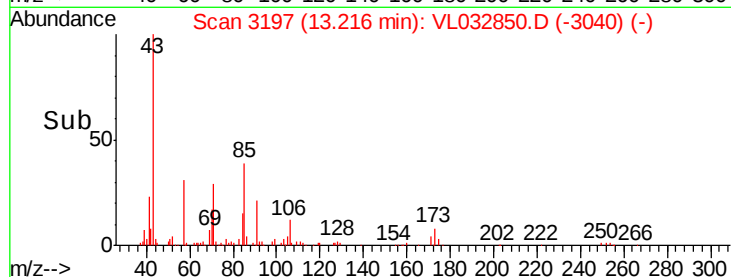
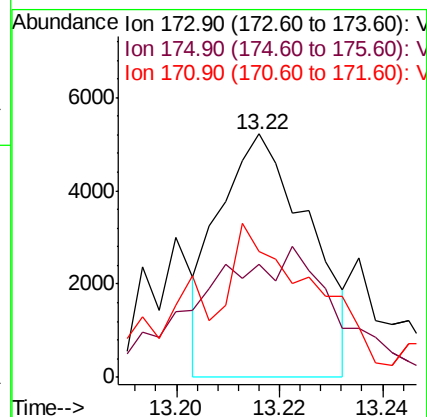
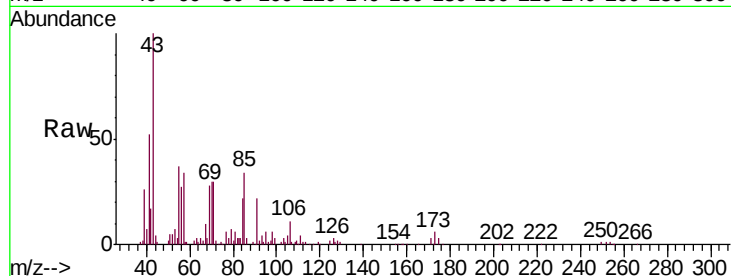
Tgt Ion:173 Resp: 6360

Ion Ratio Lower Upper

173 100

175 83.6 39.4 59.0#

171 90.3 42.0 63.0#



#50

4-Methyl-2-Pentanone

Concen: 0.331 ppbv

RT: 8.91 min Scan# 1858

Delta R.T. 0.03 min

Lab File: VL032850.D

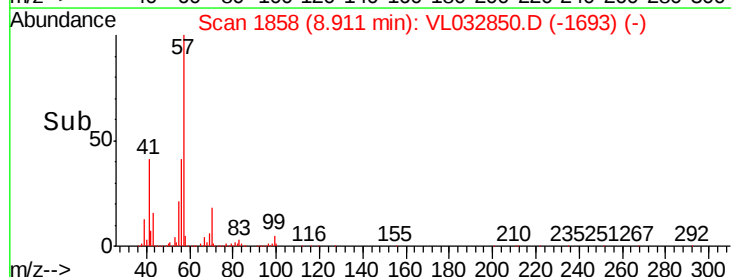
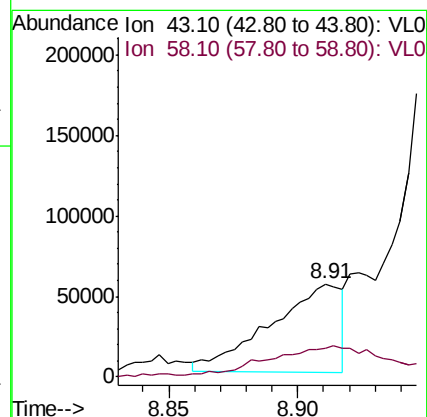
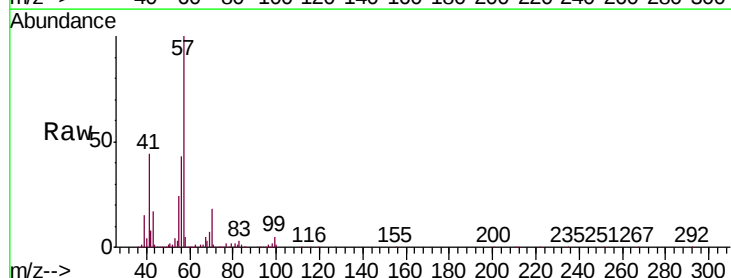
Acq: 30 Nov 2018 15:49

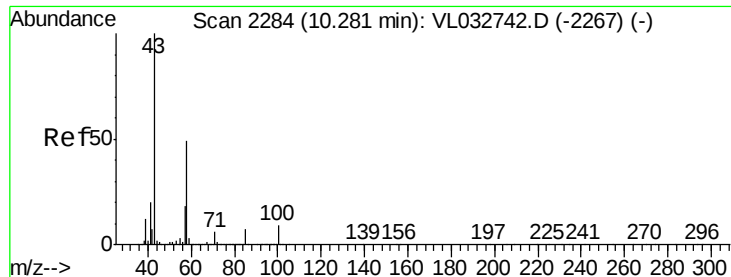
Tgt Ion: 43 Resp: 104548

Ion Ratio Lower Upper

43 100

58 57.4 28.8 43.2#

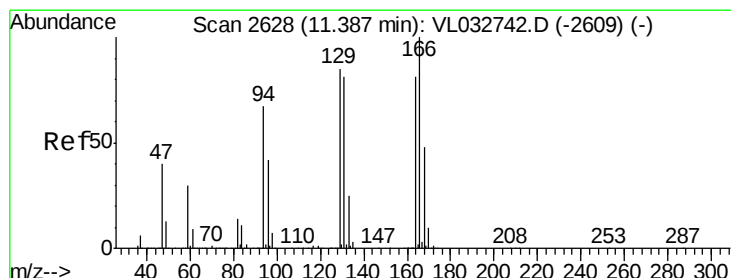
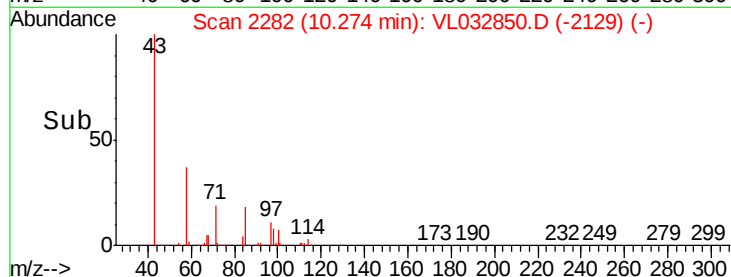
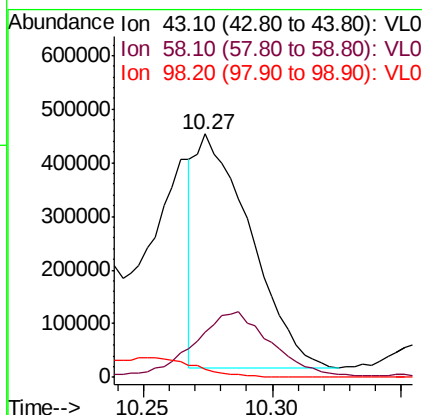
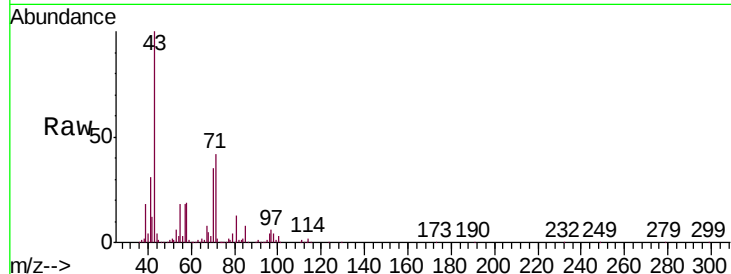




#51
2-Hexanone
Concen: 3.184 ppbv
RT: 10.27 min Scan# 2282
Delta R.T. -0.01 min
Lab File: VL032850.D
Acq: 30 Nov 2018 15:49

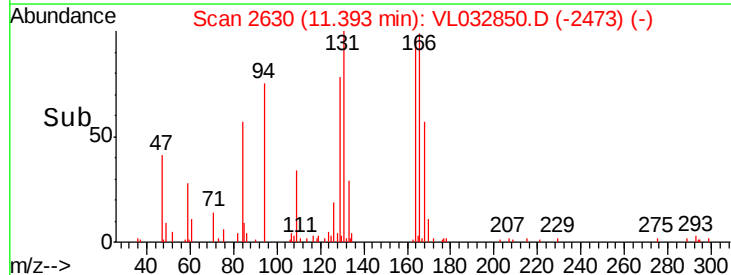
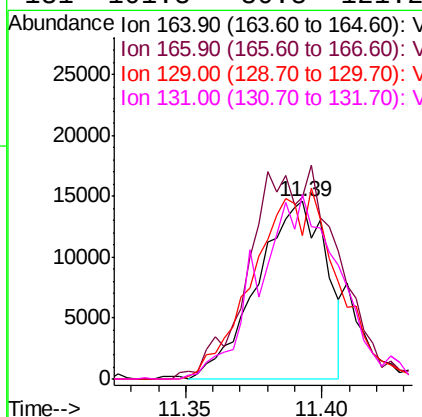
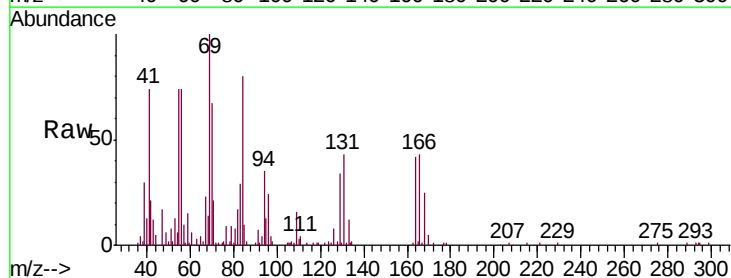
Instrument :
MSVOA_L
ClientSampleId :
SITE-D-DUP

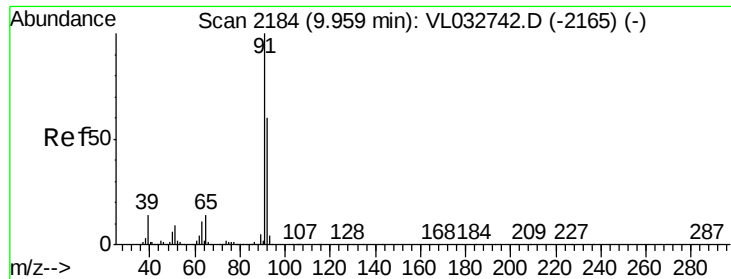
Tgt Ion: 43 Resp: 647430
Ion Ratio Lower Upper
43 100
58 39.3 38.9 58.3
98 0.0 0.2 0.4#



#52
Tetrachloroethene
Concen: 0.237 ppbv
RT: 11.39 min Scan# 2630
Delta R.T. 0.01 min
Lab File: VL032850.D
Acq: 30 Nov 2018 15:49

Tgt Ion: 164 Resp: 25600
Ion Ratio Lower Upper
164 100
166 100.7 99.3 148.9
129 81.8 83.9 125.9#
131 101.8 80.8 121.2





#53

Toluene

Concen: 49.016 ppbv

RT: 9.97 min Scan# 2186

Delta R.T. 0.01 min

Lab File: VL032850.D

Acq: 30 Nov 2018 15:49

Instrument :

MSVOA_L

ClientSampleId :

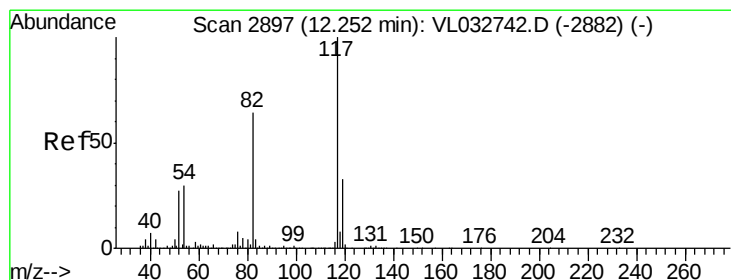
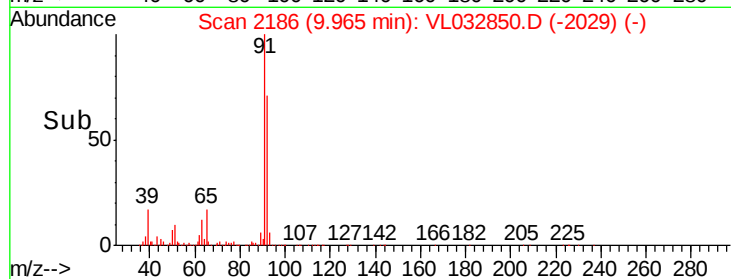
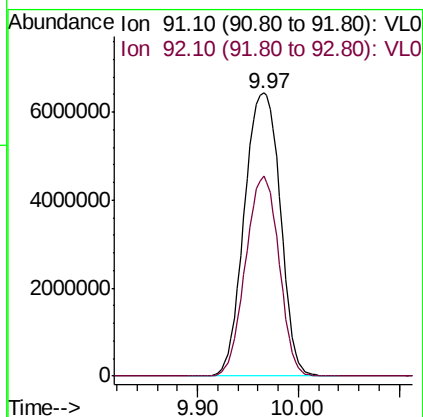
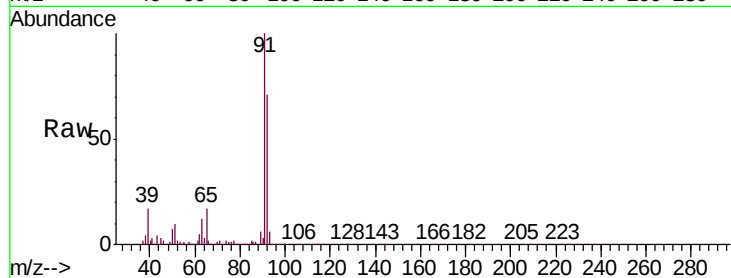
SITE-D-DUP

Tgt Ion: 91 Resp:15864490

Ion Ratio Lower Upper

91 100

92 65.9 47.9 71.9



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2898

Delta R.T. 0.00 min

Lab File: VL032850.D

Acq: 30 Nov 2018 15:49

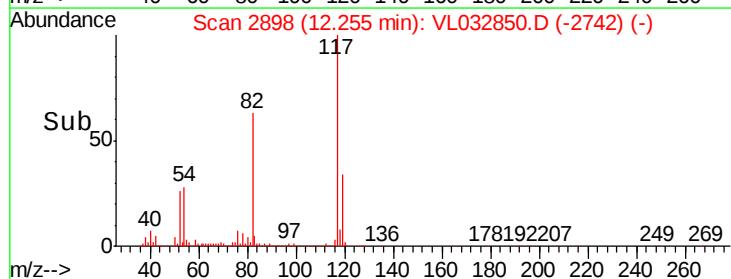
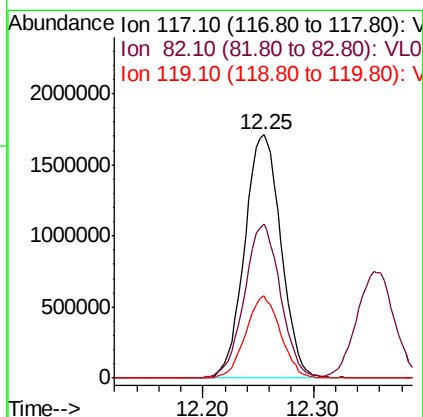
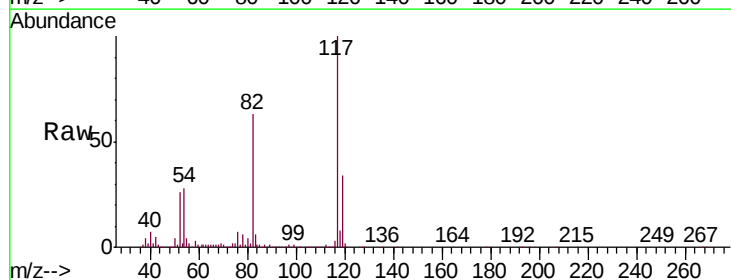
Tgt Ion:117 Resp: 3900017

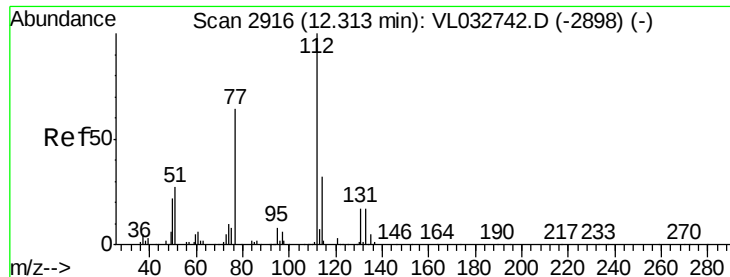
Ion Ratio Lower Upper

117 100

82 63.0 51.0 76.6

119 32.5 28.0 42.0





#57

Chlorobenzene

Concen: 2.577 ppbv

RT: 12.36 min Scan# 2930

Delta R.T. 0.04 min

Lab File: VL032850.D

Acq: 30 Nov 2018 15:49

Instrument :

MSVOA_L

ClientSampleId :

SITE-D-DUP

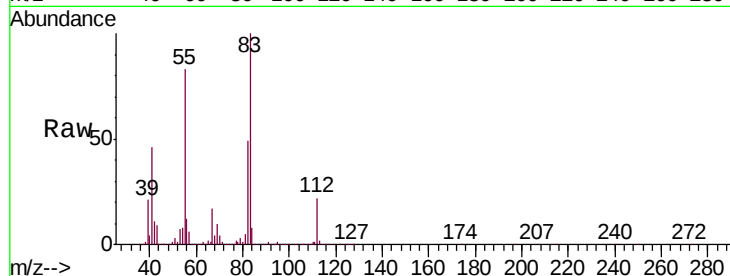
Tgt Ion: 112 Resp: 769412

Ion Ratio Lower Upper

112 100

77 8.1 52.3 78.5#

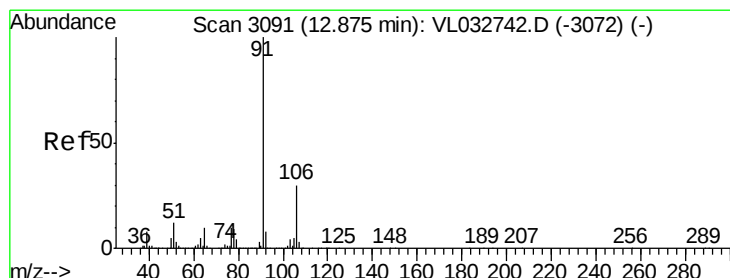
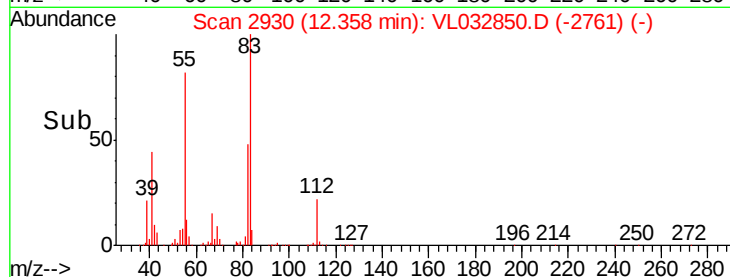
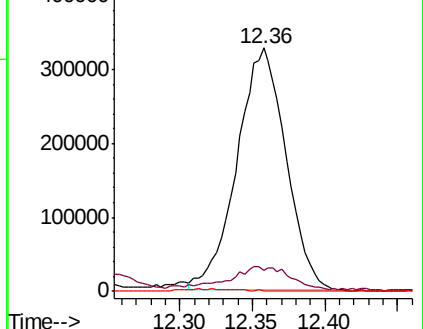
114 0.3 28.4 34.8#



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 8.705 ppbv

RT: 12.88 min Scan# 3092

Delta R.T. 0.00 min

Lab File: VL032850.D

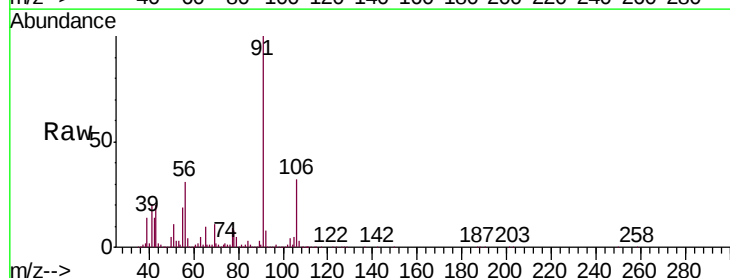
Acq: 30 Nov 2018 15:49

Tgt Ion: 91 Resp: 4085700

Ion Ratio Lower Upper

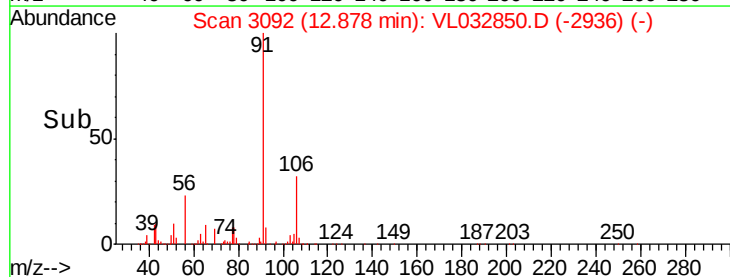
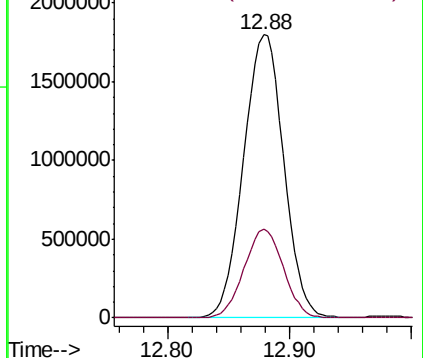
91 100

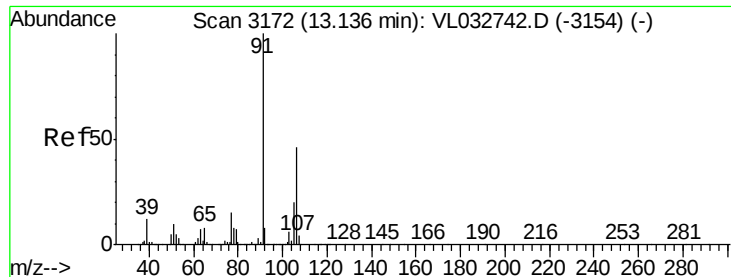
106 31.6 23.6 35.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 26.178 ppbv

RT: 13.14 min Scan# 3172

Delta R.T. -0.00 min

Lab File: VL032850.D

Acq: 30 Nov 2018 15:49

Instrument :

MSVOA_L

ClientSampleId :

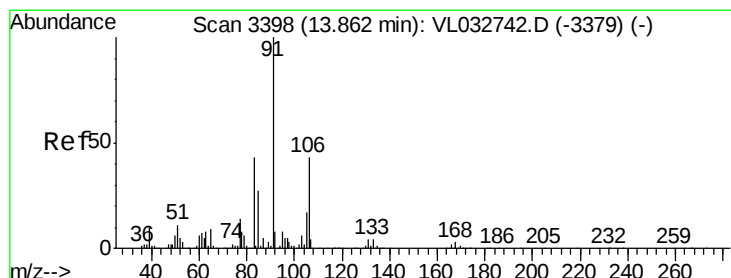
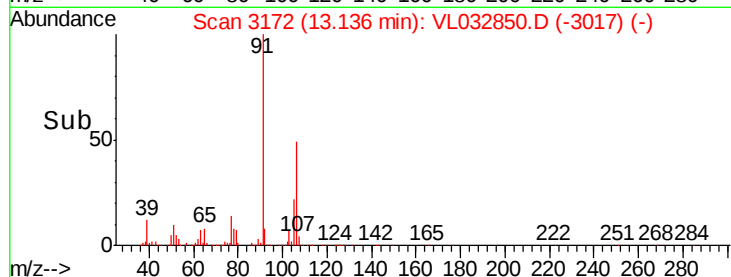
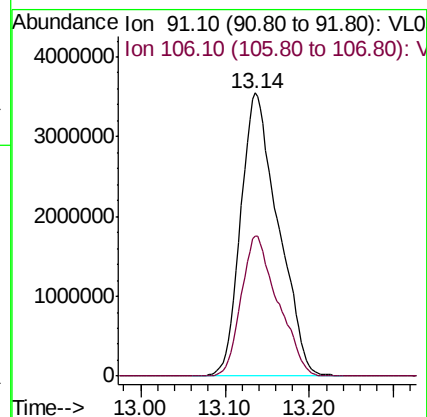
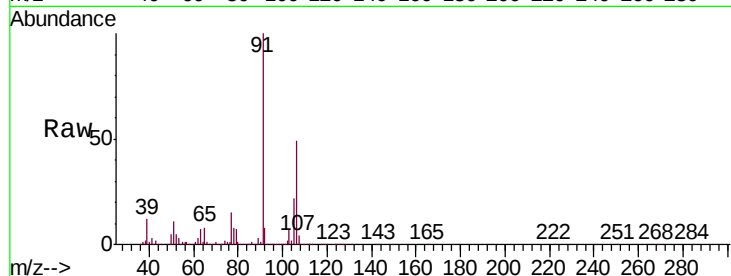
SITE-D-DUP

Tgt Ion: 91 Resp:10938051

Ion Ratio Lower Upper

91 100

106 48.7 36.1 54.1



#60

o-Xylene

Concen: 13.155 ppbv

RT: 13.86 min Scan# 3398

Delta R.T. -0.00 min

Lab File: VL032850.D

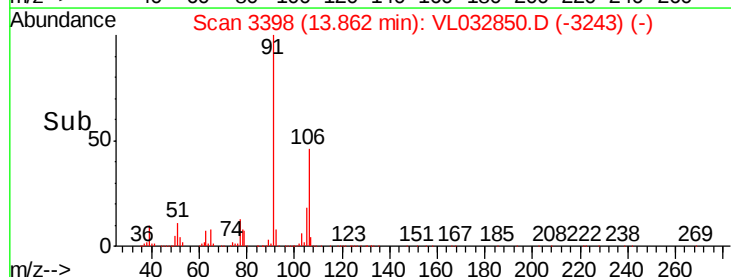
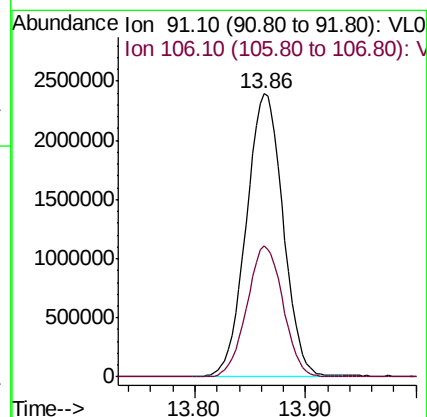
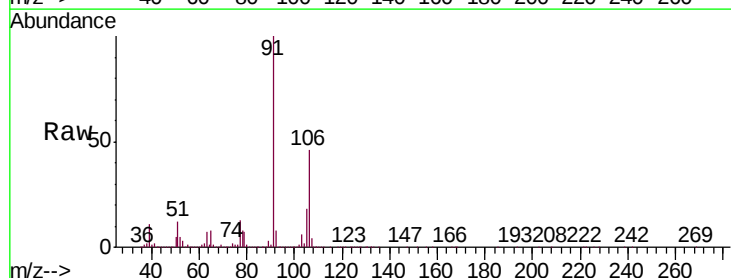
Acq: 30 Nov 2018 15:49

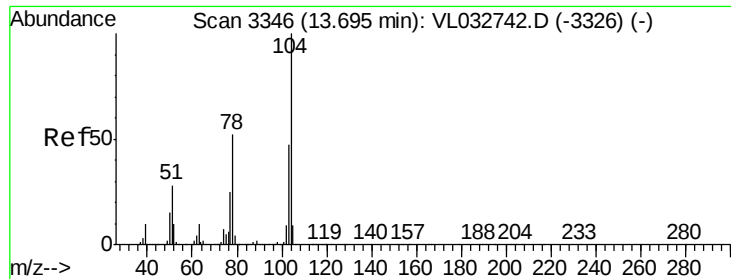
Tgt Ion: 91 Resp: 5526679

Ion Ratio Lower Upper

91 100

106 45.5 21.9 65.7





#61

Styrene

Concen: 0.949 ppbv

RT: 13.70 min Scan# 3347

Delta R.T. 0.00 min

Lab File: VL032850.D

Acq: 30 Nov 2018 15:49

Instrument :

MSVOA_L

ClientSampleId :

SITE-D-DUP

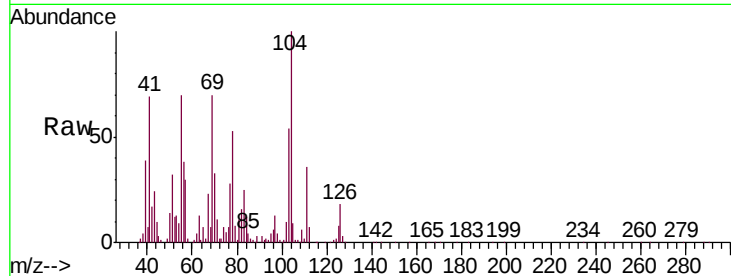
Tgt Ion:104 Resp: 259674

Ion Ratio Lower Upper

104 100

78 53.8 42.2 63.4

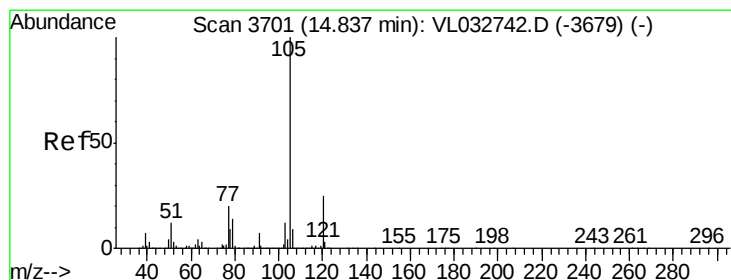
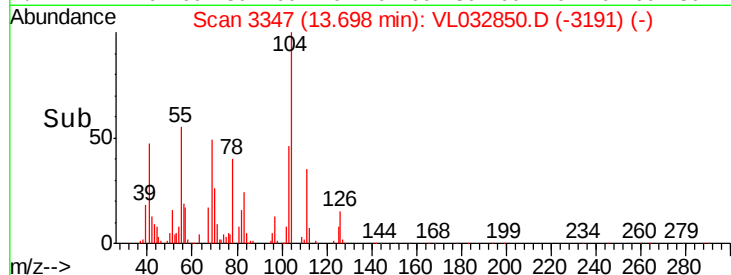
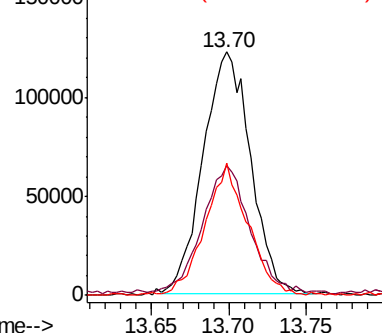
103 49.8 38.2 57.2



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 1.242 ppbv

RT: 14.84 min Scan# 3703

Delta R.T. 0.01 min

Lab File: VL032850.D

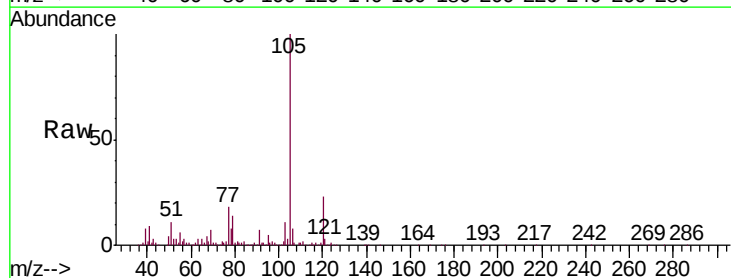
Acq: 30 Nov 2018 15:49

Tgt Ion:105 Resp: 705497

Ion Ratio Lower Upper

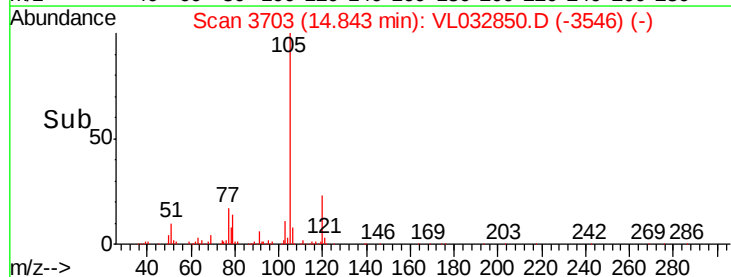
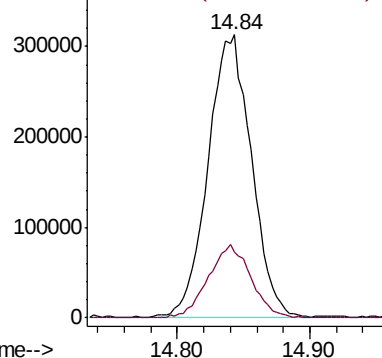
105 100

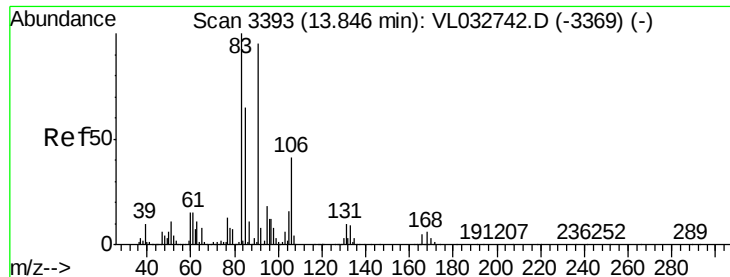
120 25.9 20.1 30.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 0.038 ppbv

RT: 13.85 min Scan# 3393

Delta R.T. -0.00 min

Lab File: VL032850.D

Acq: 30 Nov 2018 15:49

Instrument :

MSVOA_L

ClientSampleId :

SITE-D-DUP

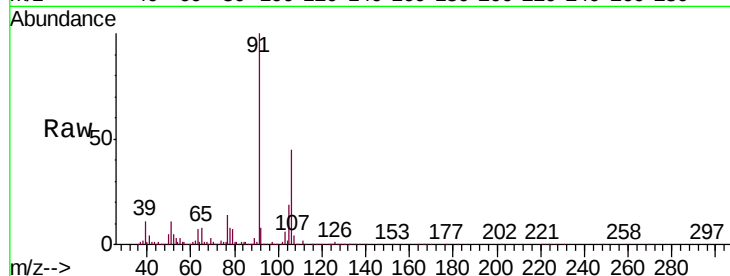
Tgt Ion: 83 Resp: 12327

Ion Ratio Lower Upper

83 100

131 16.0 4.7 14.1#

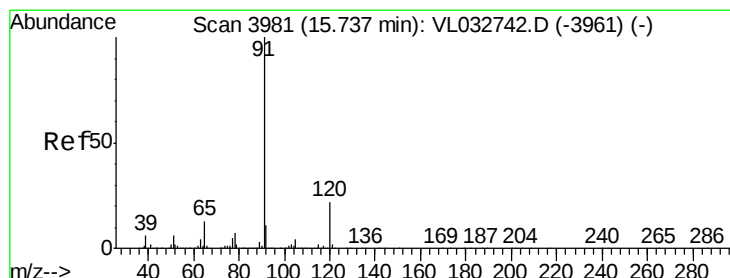
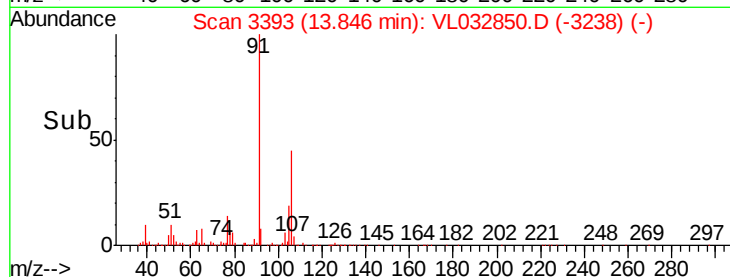
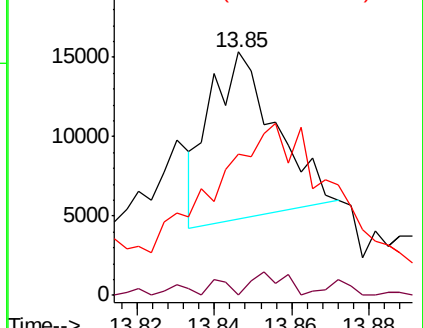
85 225.6 32.5 97.4#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 0.517 ppbv

RT: 15.73 min Scan# 3979

Delta R.T. -0.01 min

Lab File: VL032850.D

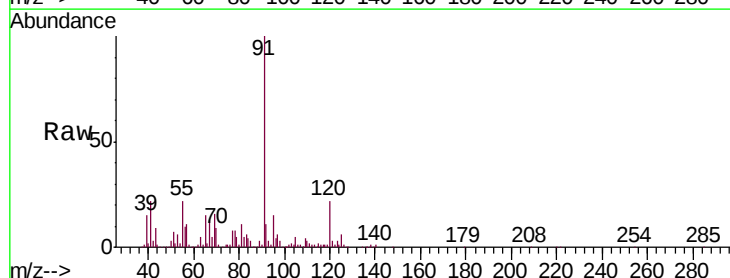
Acq: 30 Nov 2018 15:49

Tgt Ion: 120 Resp: 77151

Ion Ratio Lower Upper

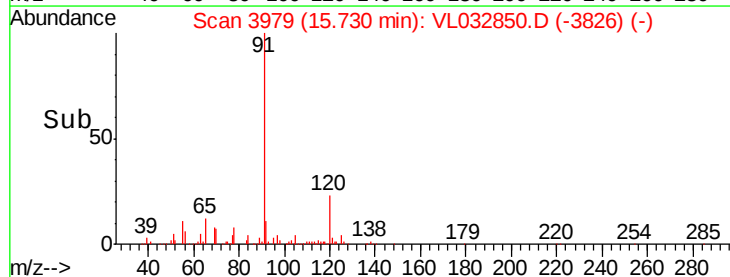
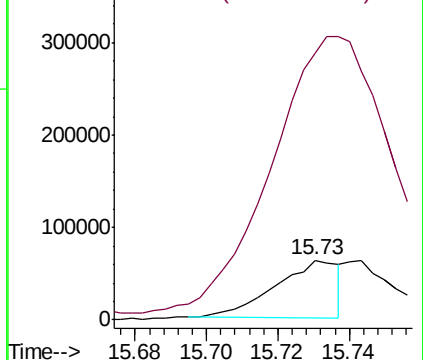
120 100

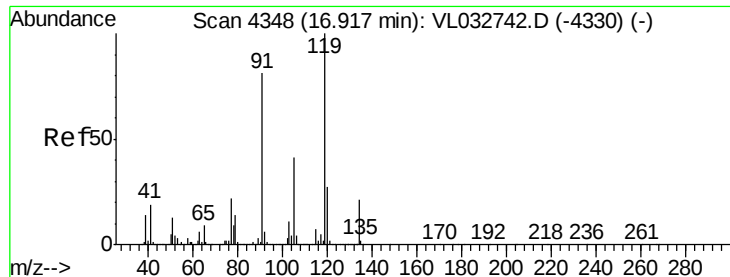
91 946.2 381.7 572.5#



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0

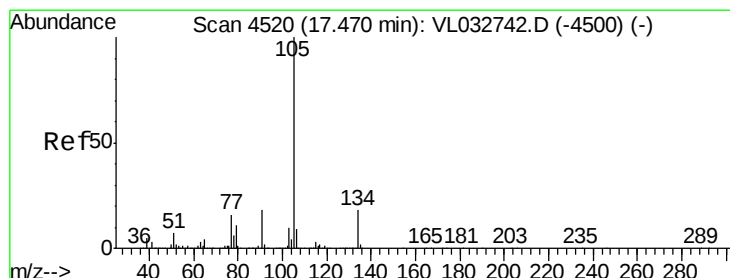
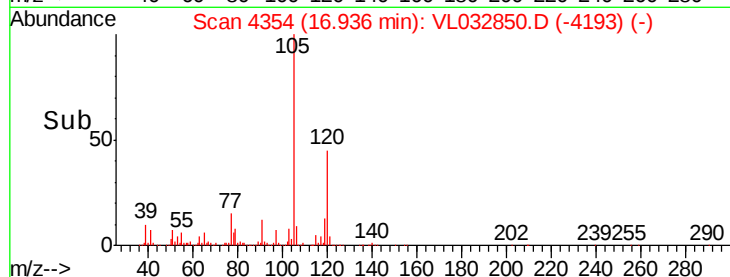
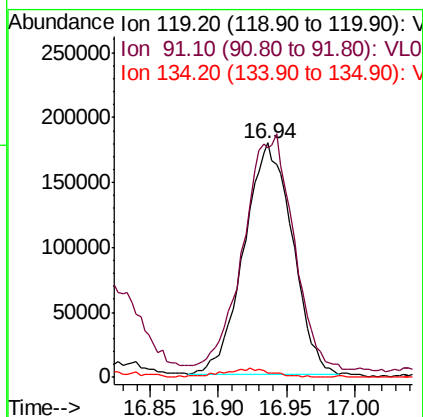
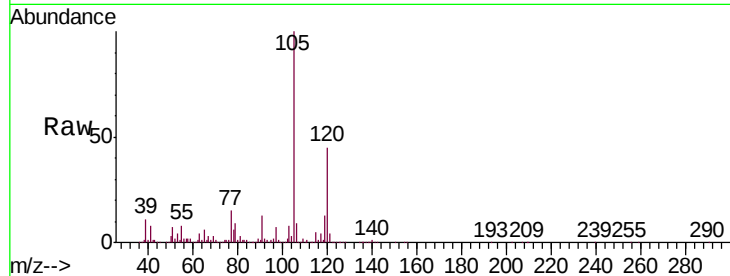




#65
tert-Butylbenzene
Concen: 0.867 ppbv
RT: 16.94 min Scan# 4354
Delta R.T. 0.02 min
Lab File: VL032850.D
Acq: 30 Nov 2018 15:49

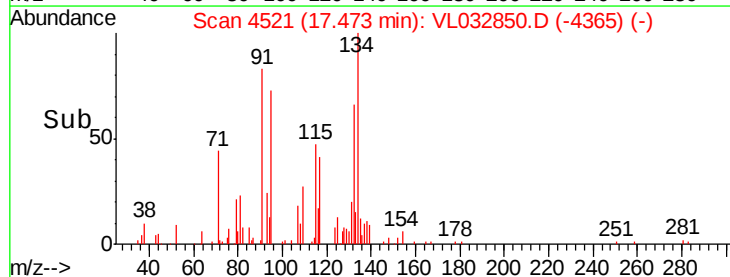
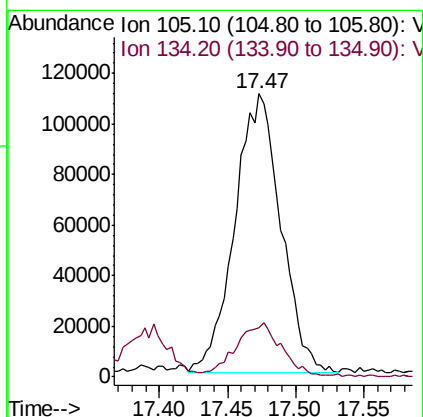
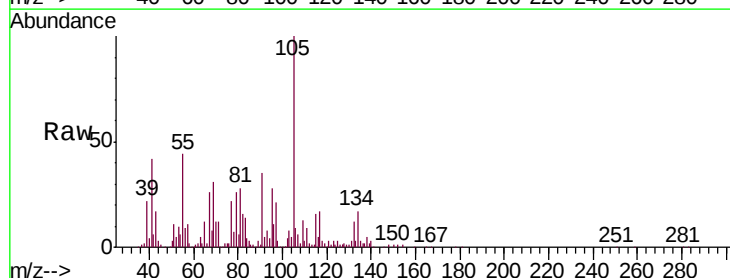
Instrument :
MSVOA_L
ClientSampleId :
SITE-D-DUP

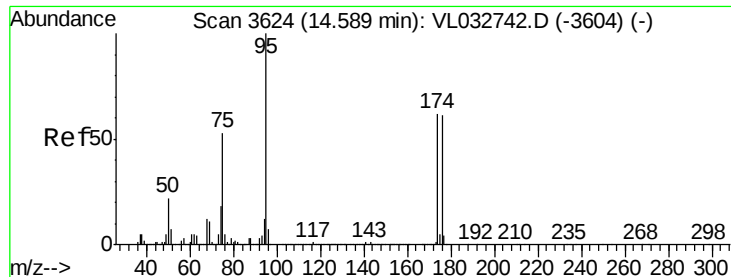
Tgt Ion:119 Resp: 441146
Ion Ratio Lower Upper
119 100
91 103.8 65.6 98.4#
134 3.9 15.9 23.9#



#67
sec-Butylbenzene
Concen: 0.351 ppbv
RT: 17.47 min Scan# 4521
Delta R.T. 0.00 min
Lab File: VL032850.D
Acq: 30 Nov 2018 15:49

Tgt Ion:105 Resp: 257781
Ion Ratio Lower Upper
105 100
134 19.5 14.6 21.8





#68

1-Bromo-4-Fluorobenzene

Concen: 11.457 ppbv

RT: 14.59 min Scan# 3624

Delta R.T. -0.00 min

Lab File: VL032850.D

Acq: 30 Nov 2018 15:49

Instrument :

MSVOA_L

ClientSampleId :

SITE-D-DUP

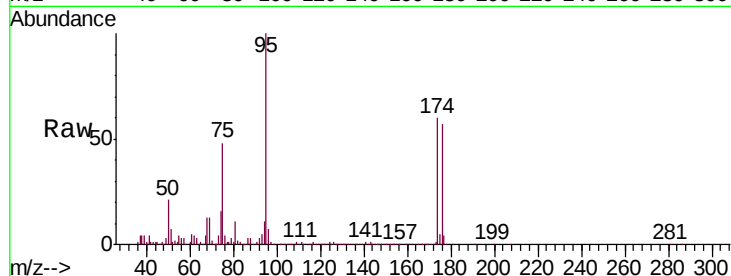
Tgt Ion: 95 Resp: 3342048

Ion Ratio Lower Upper

95 100

174 58.4 50.7 76.1

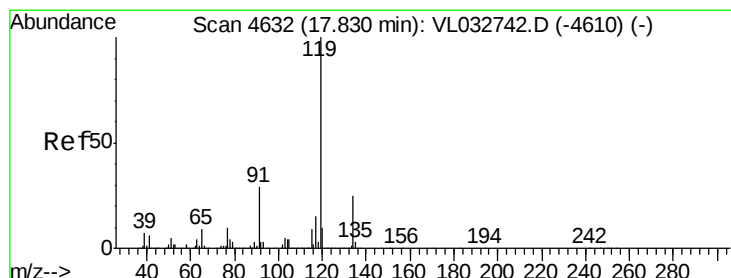
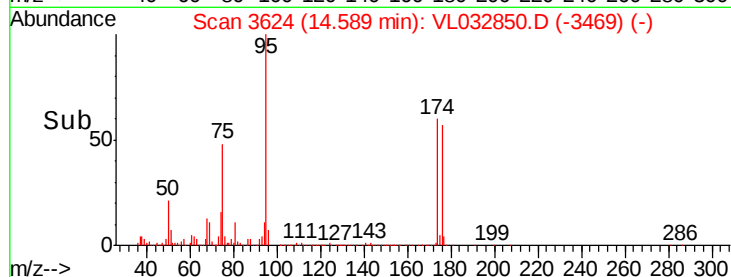
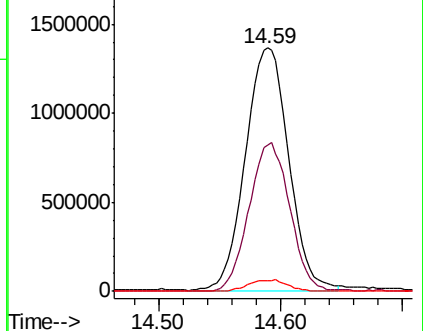
175 4.4 3.8 5.6



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V



#69

p-Isopropyltoluene

Concen: 0.305 ppbv

RT: 17.83 min Scan# 4632

Delta R.T. -0.00 min

Lab File: VL032850.D

Acq: 30 Nov 2018 15:49

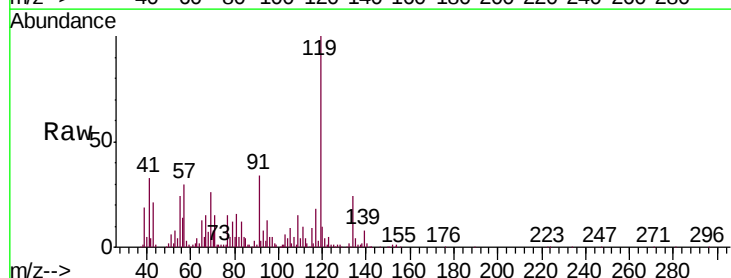
Tgt Ion: 119 Resp: 177685

Ion Ratio Lower Upper

119 100

134 53.5 20.2 30.4#

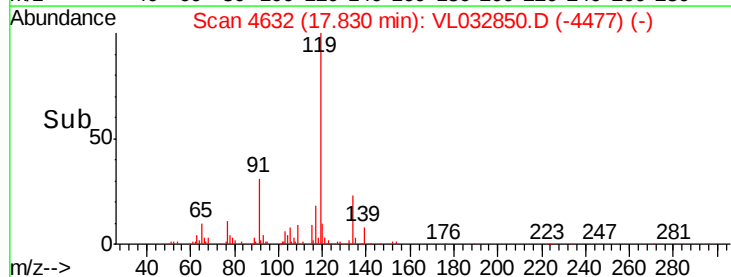
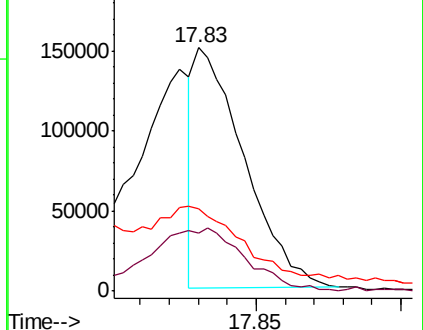
91 58.7 23.5 35.3#

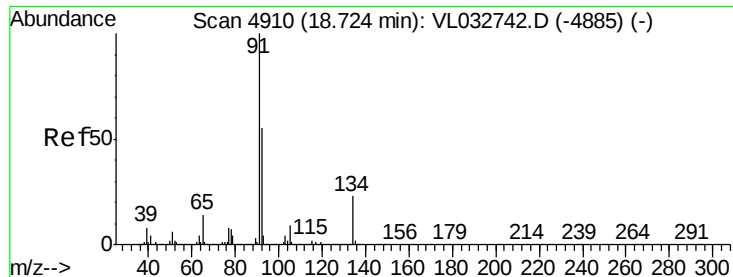


Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): VL0

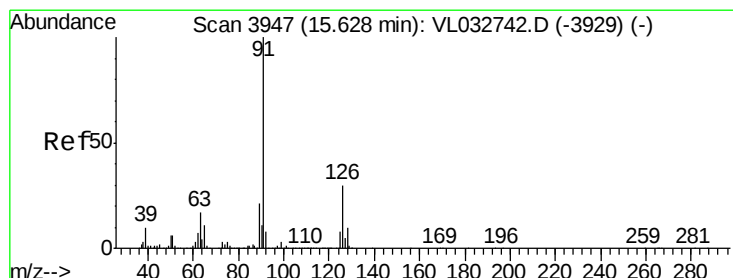
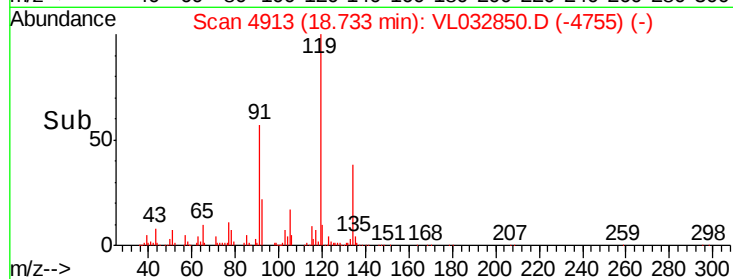
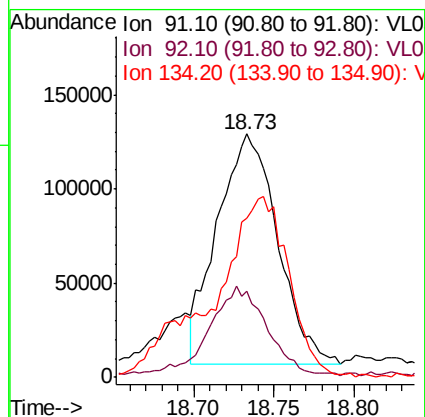
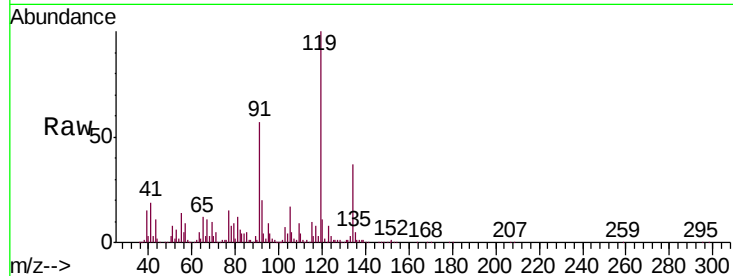




#70
n-Butylbenzene
Concen: 0.538 ppbv
RT: 18.73 min Scan# 4913
Delta R.T. 0.01 min
Lab File: VL032850.D
Acq: 30 Nov 2018 15:49

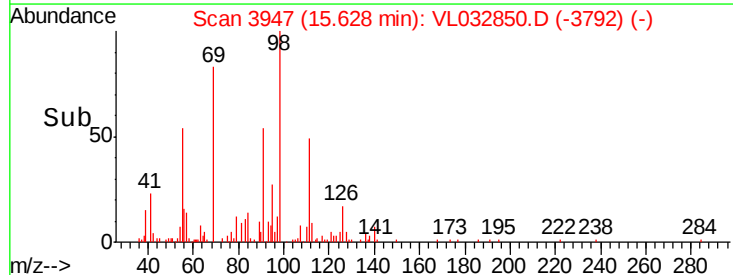
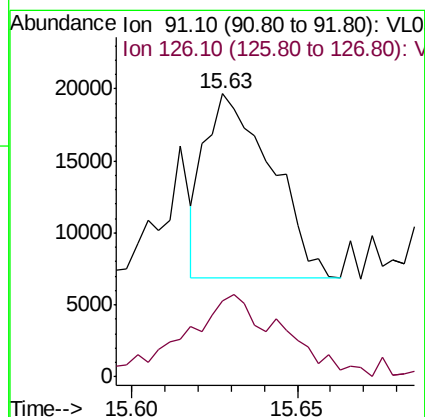
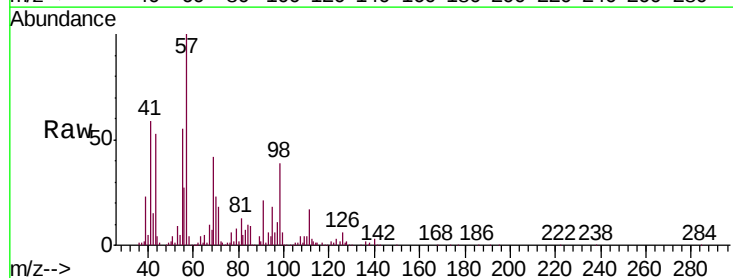
Instrument :
MSVOA_L
ClientSampleId :
SITE-D-DUP

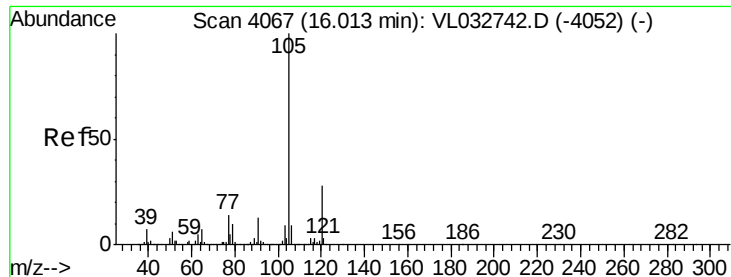
Tgt Ion: 91 Resp: 318617
Ion Ratio Lower Upper
91 100
92 38.7 42.9 64.3#
134 98.7 17.8 26.8#



#71
2-Chlorotoluene
Concen: 0.042 ppbv
RT: 15.63 min Scan# 3947
Delta R.T. -0.00 min
Lab File: VL032850.D
Acq: 30 Nov 2018 15:49

Tgt Ion: 91 Resp: 17796
Ion Ratio Lower Upper
91 100
126 67.2 12.1 48.5#





#72

4-Ethyltoluene

Concen: 2.172 ppbv

RT: 16.01 min Scan# 4067

Delta R.T. -0.00 min

Lab File: VL032850.D

Acq: 30 Nov 2018 15:49

Instrument :

MSVOA_L

ClientSampleId :

SITE-D-DUP

Tgt Ion:105 Resp: 1000263

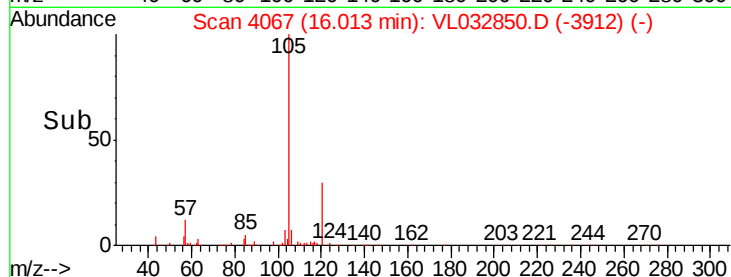
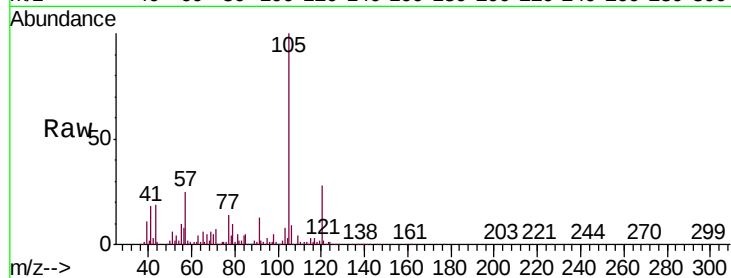
Ion Ratio Lower Upper

105 100

120 29.4 22.9 34.3

91 13.3 10.6 15.8

77 14.5 11.4 17.2

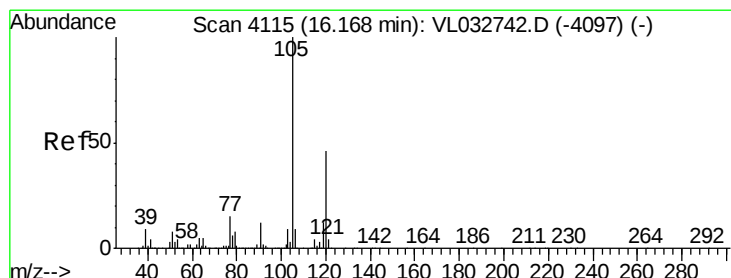
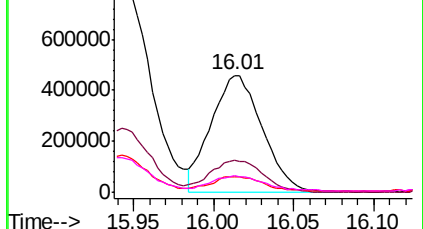


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#73

1,3,5-Trimethylbenzene

Concen: 4.139 ppbv

RT: 16.17 min Scan# 4117

Delta R.T. 0.01 min

Lab File: VL032850.D

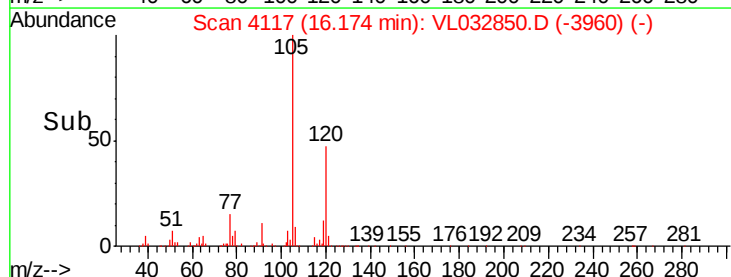
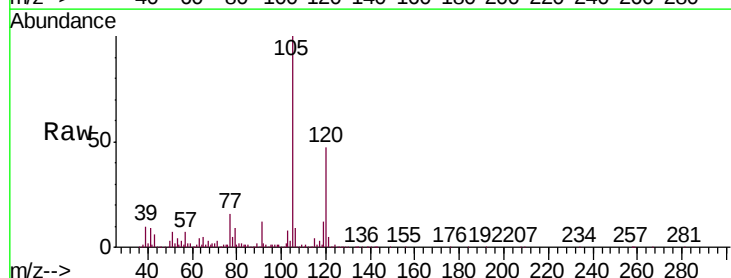
Acq: 30 Nov 2018 15:49

Tgt Ion:105 Resp: 1863354

Ion Ratio Lower Upper

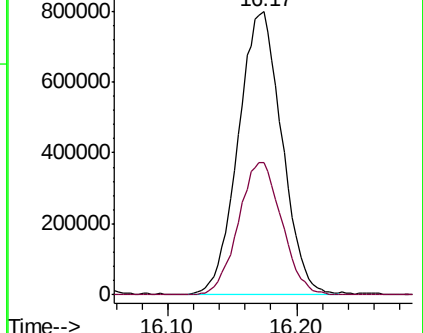
105 100

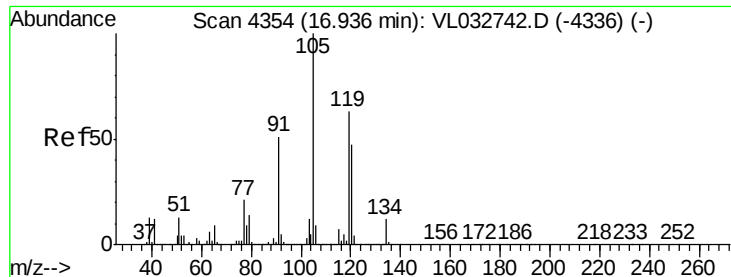
120 46.7 36.6 55.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

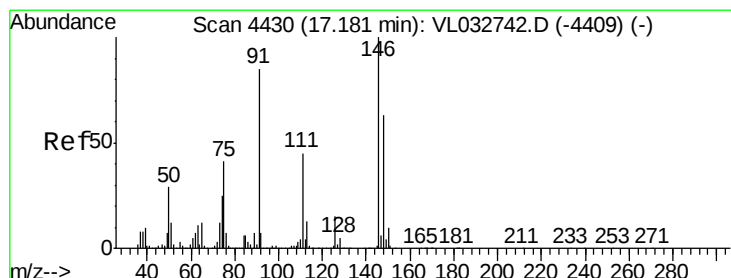
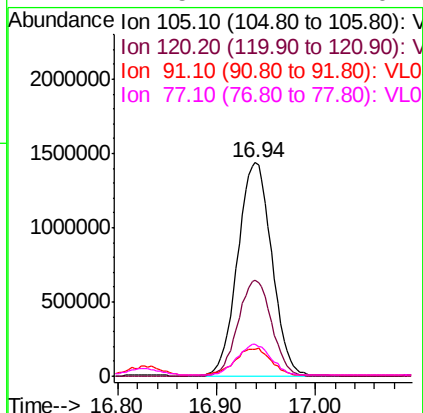
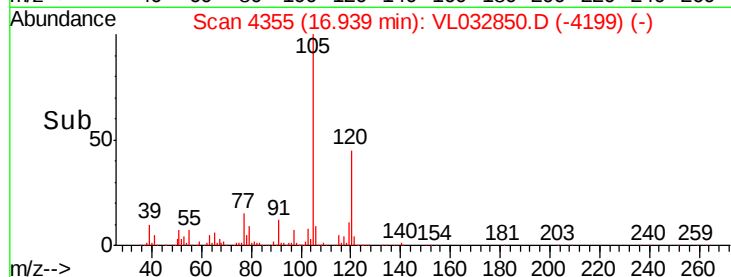
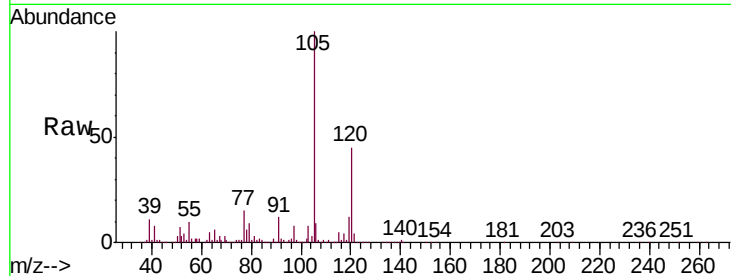




#74
 1,2,4-Trimethylbenzene
 Concen: 7.150 ppbv
 RT: 16.94 min Scan# 4355
 Delta R.T. 0.00 min
 Lab File: VL032850.D
 Acq: 30 Nov 2018 15:49

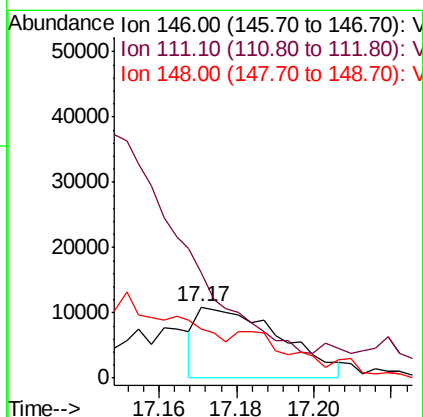
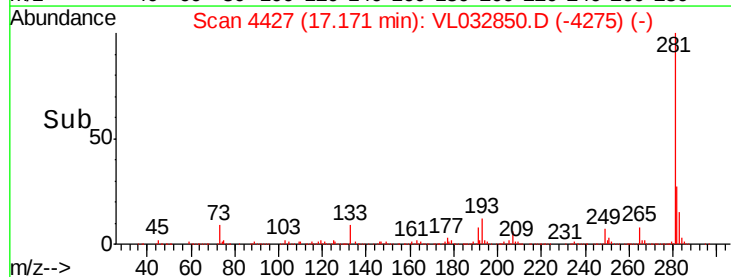
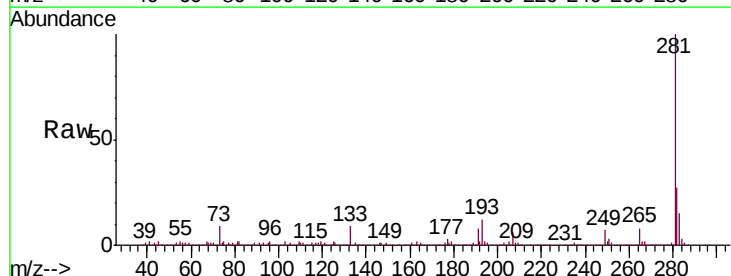
Instrument :
 MSVOA_L
 ClientSampleId :
 SITE-D-DUP

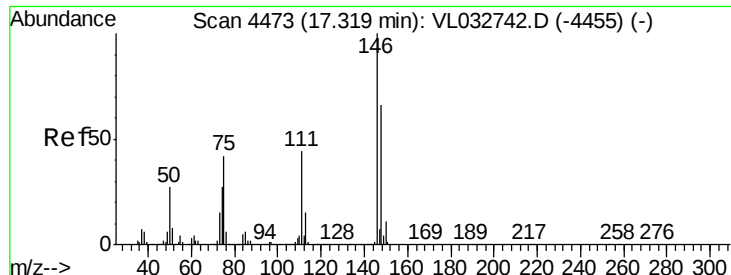
Tgt Ion:	105	Resp:	3444689
Ion	Ratio	Lower	Upper
105	100		
120	45.0	37.6	56.4
91	12.1	42.5	63.7#
77	14.5	17.4	26.2#



#75
 1,3-Dichlorobenzene
 Concen: 0.059 ppbv
 RT: 17.17 min Scan# 4427
 Delta R.T. -0.01 min
 Lab File: VL032850.D
 Acq: 30 Nov 2018 15:49

Tgt Ion:	146	Resp:	16221
Ion	Ratio	Lower	Upper
146	100		
111	0.0	23.5	70.6#
148	0.0	31.8	95.3#

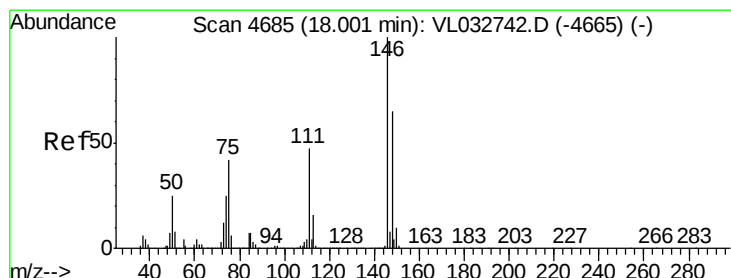
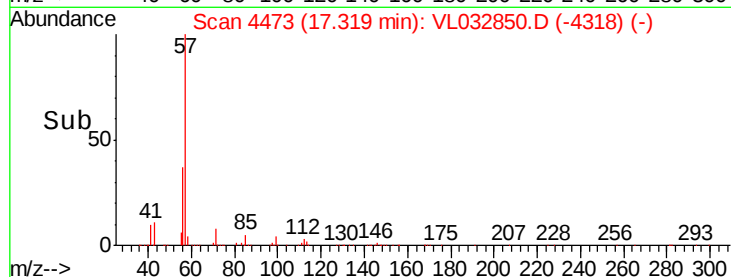
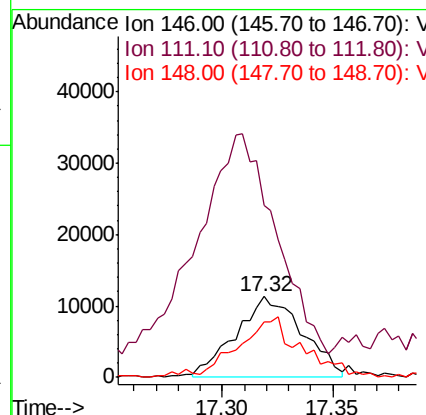
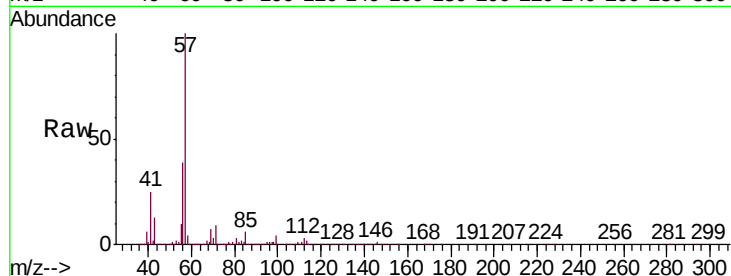




#76
 1,4-Dichlorobenzene
 Concen: 0.092 ppbv
 RT: 17.32 min Scan# 4473
 Delta R.T. -0.00 min
 Lab File: VL032850.D
 Acq: 30 Nov 2018 15:49

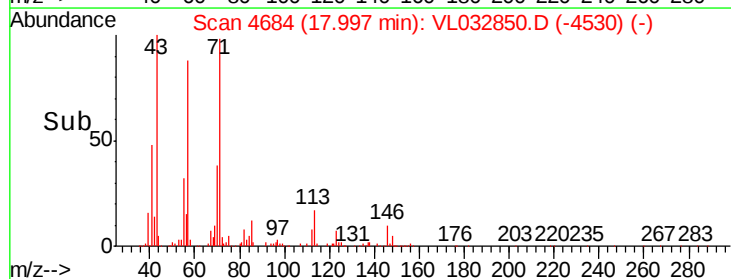
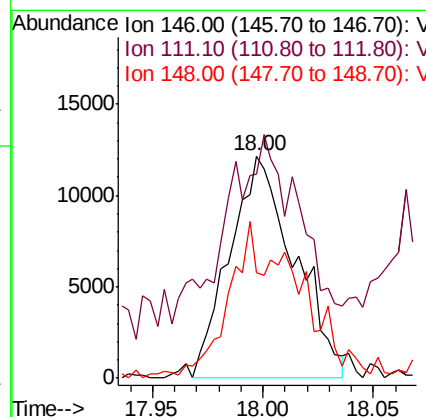
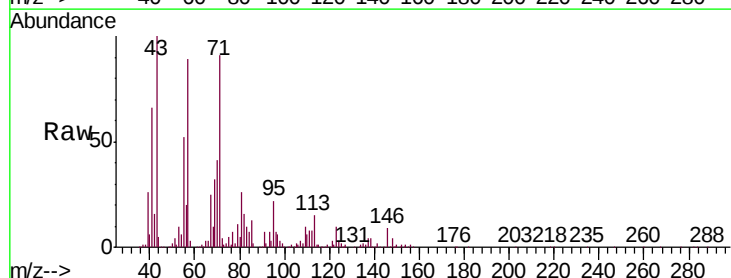
Instrument :
 MSVOA_L
 ClientSampleId :
 SITE-D-DUP

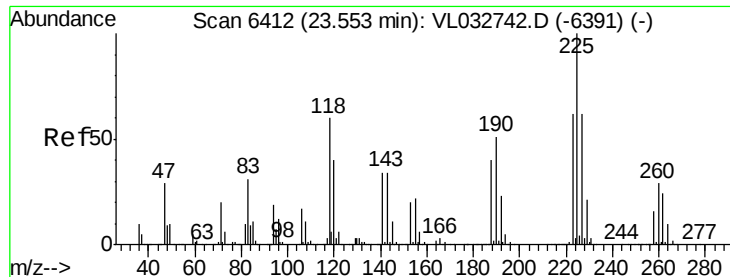
Tgt Ion	Ratio	Lower	Upper
146	100		
111	339.1	22.5	67.5#
148	75.2	32.5	97.5



#77
 1,2-Dichlorobenzene
 Concen: 0.098 ppbv
 RT: 18.00 min Scan# 4684
 Delta R.T. -0.00 min
 Lab File: VL032850.D
 Acq: 30 Nov 2018 15:49

Tgt Ion	Ratio	Lower	Upper
146	100		
111	109.4	24.4	73.2#
148	79.5	32.2	96.6





#78

Hexachloro-1,3-Butadiene

Concen: 0.053 ppbv

RT: 23.56 min Scan# 6414

Delta R.T. 0.01 min

Lab File: VL032850.D

Acq: 30 Nov 2018 15:49

Instrument :

MSVOA_L

ClientSampleId :

SITE-D-DUP

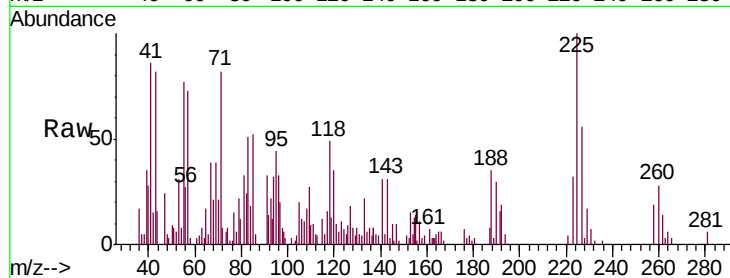
Tgt Ion:225 Resp: 7371

Ion Ratio Lower Upper

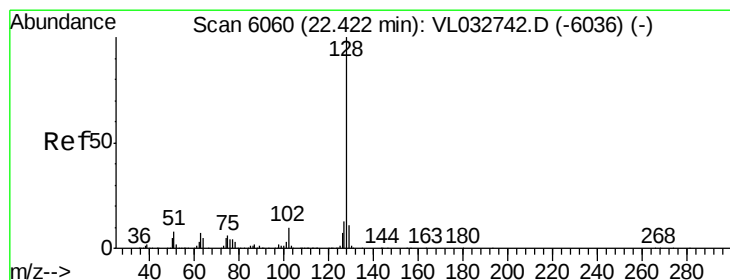
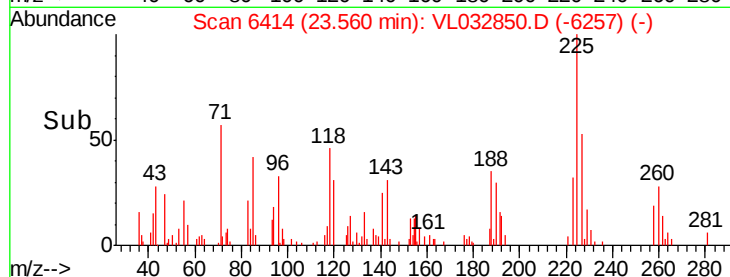
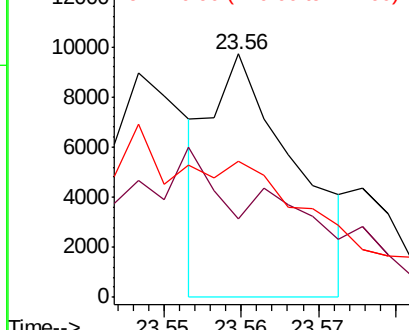
225 100

223 170.8 50.3 75.5#

227 0.0 50.2 75.4#



Abundance Ion 224.90 (224.60 to 225.60): V
Ion 222.90 (222.60 to 223.60): V
Ion 226.90 (226.60 to 227.60): V



#79

Naphthalene

Concen: 1.110 ppbv

RT: 22.42 min Scan# 6061

Delta R.T. 0.00 min

Lab File: VL032850.D

Acq: 30 Nov 2018 15:49

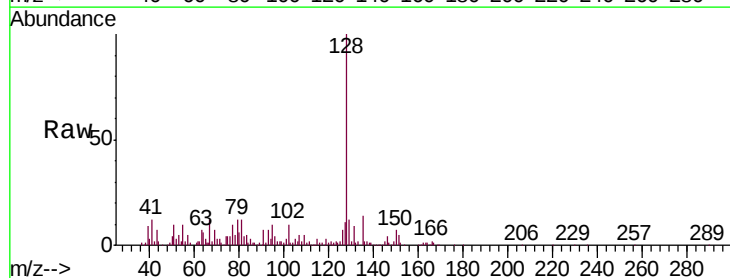
Tgt Ion:128 Resp: 351432

Ion Ratio Lower Upper

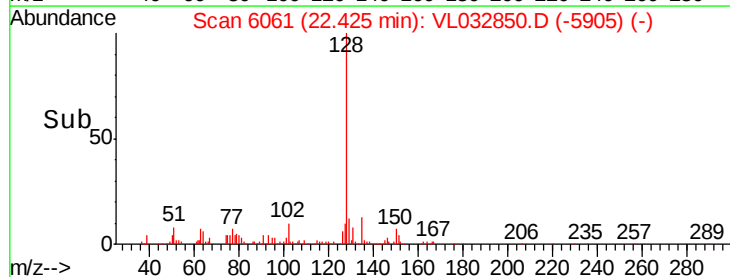
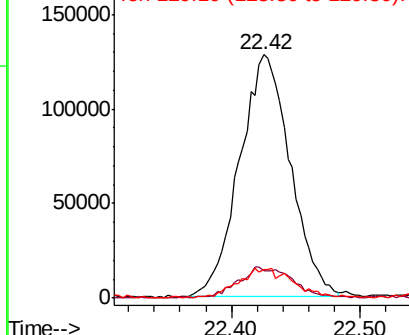
128 100

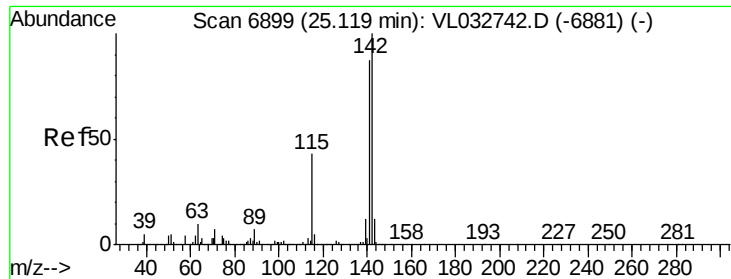
127 11.0 10.1 15.1

129 11.1 8.9 13.3



Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V





#80

Naphthalene, 2-methyl-

Concen: 0.481 ppbv

RT: 25.12 min Scan# 6900

Delta R.T. 0.00 min

Lab File: VL032850.D

Acq: 30 Nov 2018 15:49

Instrument :

MSVOA_L

ClientSampleId :

SITE-D-DUP

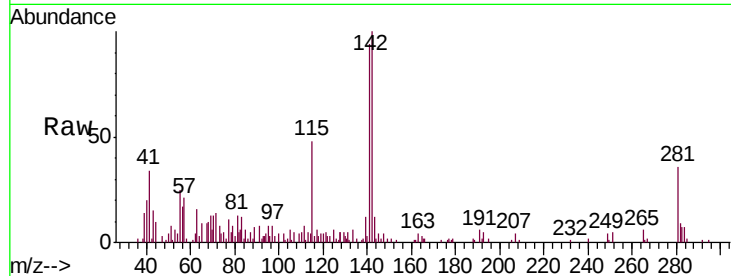
Tgt Ion:142 Resp: 38093

Ion Ratio Lower Upper

142 100

141 93.2 68.7 103.1

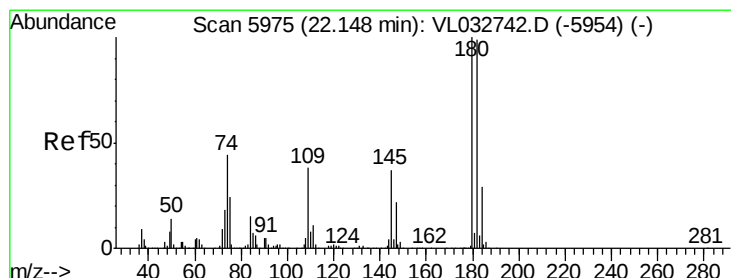
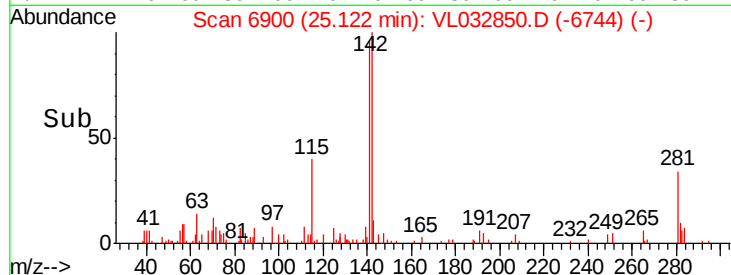
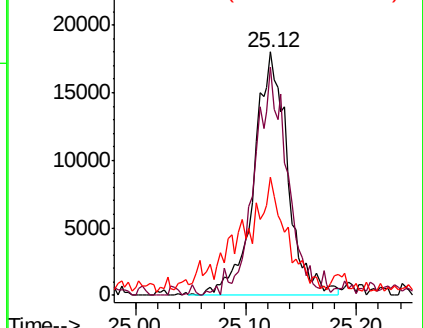
115 71.5 35.5 53.3#



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V



#81

1,2,4-Trichlorobenzene

Concen: 0.045 ppbv

RT: 22.16 min Scan# 5978

Delta R.T. 0.01 min

Lab File: VL032850.D

Acq: 30 Nov 2018 15:49

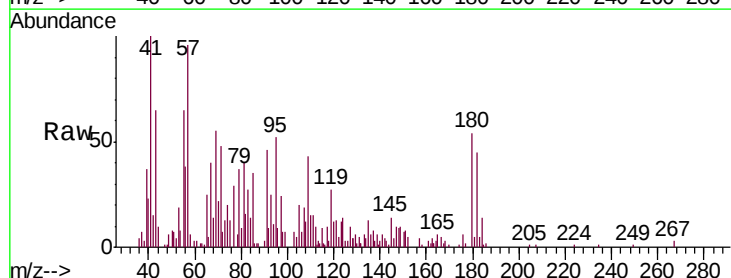
Tgt Ion:180 Resp: 7200

Ion Ratio Lower Upper

180 100

182 0.0 77.3 115.9#

184 116.8 24.2 36.4#



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

