

Data File : VL033789.D
Acq On : 24 May 2019 1:24
Operator : SY/AP
Sample : K2929-08
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BPS1-DUP-01

Quant Time: May 24 04:31:45 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL051719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 17 08:15:41 2019
QLast Update : Fri May 17 08:15:41 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	873942	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2397251	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2499623	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1945301	9.60	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.00%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.08	85	86078	0.467	ppbv	97
3) Chlorodifluoromethane	3.01	51	30559	0.305	ppbv	98
4) Chloromethane	3.17	50	12878	0.225	ppbv #	88
6) Bromomethane	3.52	94	711	0.020	ppbv #	4
7) Chloroethane	3.60	64	530	0.026	ppbv	99
8) Dichlorotetrafluoroethane	3.22	85	2139	0.014	ppbv #	83
9) Propene	3.03	41	5281760	124.045	ppbv	96
10) Heptane	8.24	43	323604	2.684	ppbv	97
11) Trichlorofluoromethane	4.00	101	148111	0.843	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	17255	0.141	ppbv	99
13) Ethanol	3.66	45	1267678	92.113	ppbv	99
15) Acetone	3.89	43	10102595	83.317	ppbv #	81
16) 1,3-Butadiene	3.34	39	2952596	61.148	ppbv #	26
17) tert-Butyl alcohol	4.36	59	405121	4.132	ppbv	97
19) Isopropyl Alcohol	4.03	45	411981	5.269	ppbv #	94
20) Methylene Chloride	4.41	84	86219	1.847	ppbv	95
21) Allyl Chloride	4.47	41	91216	1.206	ppbv #	1
23) Vinyl Acetate	5.15	43	273266	1.709	ppbv #	38
24) 1,1-Dichloroethane	5.13	63	2787	0.023	ppbv #	90
25) Ethyl Acetate	5.76	43	2511295	11.790	ppbv #	93
26) Hexane	5.78	57	430590	4.702	ppbv #	1
27) Carbon Disulfide	4.62	76	249286	1.984	ppbv	97
28) Methyl tert-Butyl Ether	5.11	73	4522	0.030	ppbv #	54
29) Chloroform	5.85	83	76314	0.452	ppbv	95
30) Cyclohexane	7.25	84	19741	0.256	ppbv #	1
31) cis-1,2-Dichloroethene	5.76	61	304329	3.352	ppbv #	25
32) 1,1,1-Trichloroethane	6.62	97	6588	0.039	ppbv #	48
34) 2-Butanone	5.33	43	2849278	19.175	ppbv	97
35) Carbon Tetrachloride	7.13	117	2390	0.012	ppbv #	38
36) Benzene	7.00	78	518332	2.377	ppbv	95
37) 1,2-Dichloroethane	6.41	62	1626	0.012	ppbv #	83
39) 1,2-Dichloropropane	7.29	63	563561	6.932	ppbv #	22
40) 1,4-Dioxane	7.96	88	959	0.028	ppbv #	1
41) Tetrahydrofuran	6.14	42	10613	0.127	ppbv #	36
42) Bromodichloromethane	7.92	83	4524	0.023	ppbv #	31
43) Methyl Methacrylate	8.13	69	12672	0.158	ppbv #	1
44) 2,2,4-Trimethylpentane	7.98	57	47129	0.128	ppbv #	43
50) 4-Methyl-2-Pentanone	8.87	43	160203	0.701	ppbv	99
51) 2-Hexanone	10.26	43	294051	1.648	ppbv #	94
52) Tetrachloroethene	11.37	164	15304	0.200	ppbv #	86
53) Toluene	9.94	91	4288574	18.233	ppbv	98

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Quant Time: May 24 04:31:45 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL051719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 17 08:15:41 2019
QLast Update : Fri May 17 08:15:41 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) Chlorobenzene	12.30	112	5231	0.025	ppbv #	44
58) Ethyl Benzene	12.86	91	477529	1.443	ppbv	99
59) m/p-Xylene	13.12	91	1394389	4.819	ppbv	96
60) o-Xylene	13.84	91	515083	1.766	ppbv	97
61) Styrene	13.68	104	44864	0.228	ppbv	99
62) Isopropylbenzene	14.82	105	26184	0.067	ppbv #	50
64) n-propylbenzene	15.72	120	19843	0.195	ppbv #	1
65) tert-Butylbenzene	16.92	119	22469	0.063	ppbv #	1
67) sec-Butylbenzene	17.77	105	40938	0.082	ppbv	92
70) n-Butylbenzene	18.72	91	55097	0.124	ppbv #	59
72) 4-Ethyltoluene	15.99	105	167289	0.502	ppbv	99
73) 1,3,5-Trimethylbenzene	16.15	105	129873	0.399	ppbv #	86
74) 1,2,4-Trimethylbenzene	16.92	105	527099	1.488	ppbv #	75
75) 1,3-Dichlorobenzene	17.16	146	52549	0.242	ppbv #	60
76) 1,4-Dichlorobenzene	17.30	146	16770	0.081	ppbv #	24
79) Naphthalene	22.41	128	137444	0.418	ppbv #	94
80) Naphthalene,2-methyl-	25.11	142	11177	0.089	ppbv #	87

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

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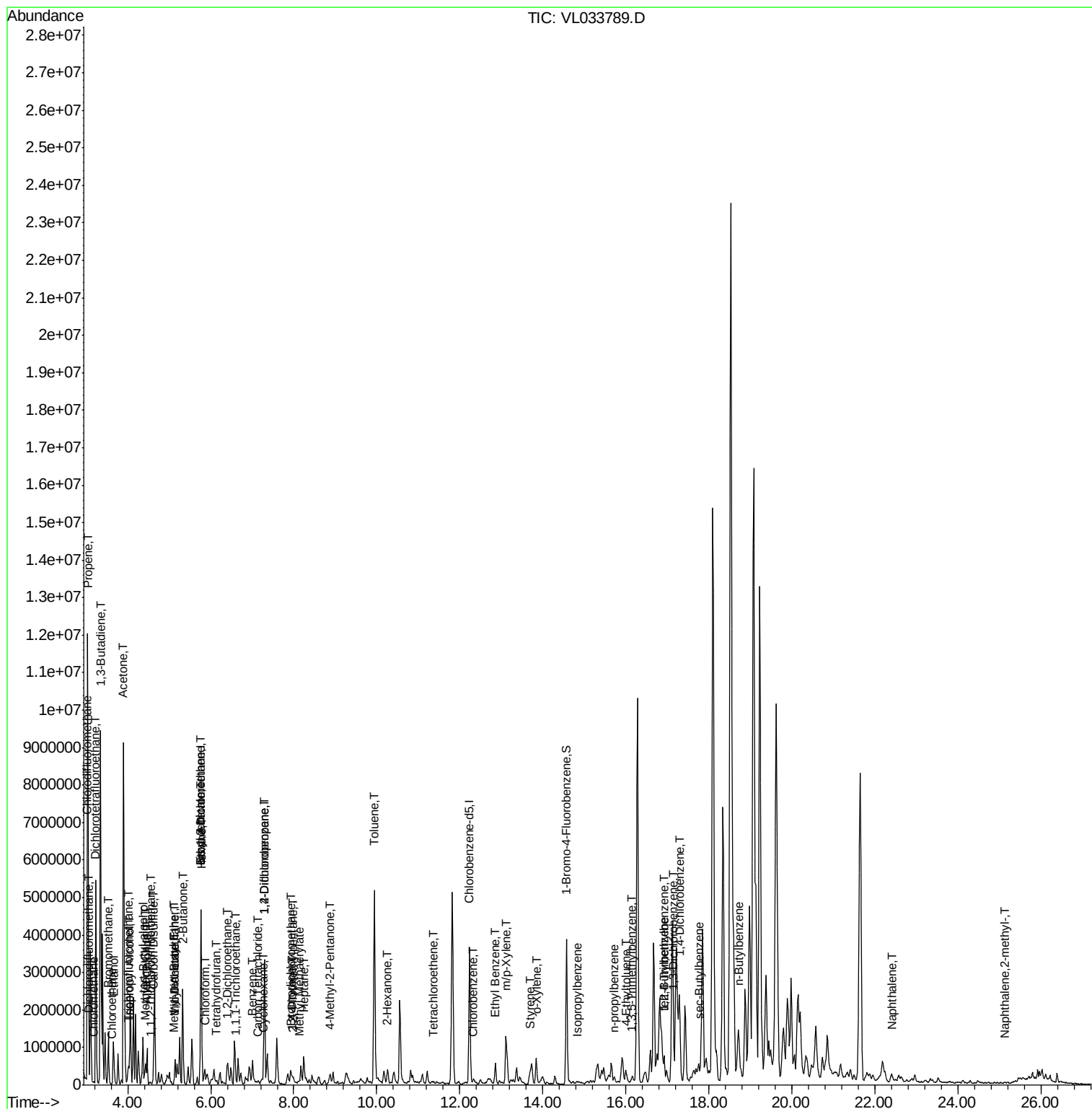
Quant Time: May 24 04:31:45 2019

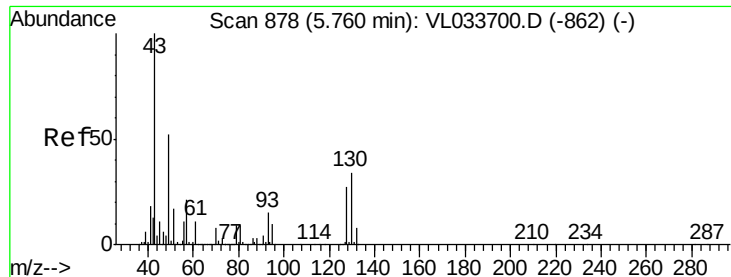
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_L\METHODS\VL051719AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri May 17 08:15:41 2019

QLast Update : Fri May 17 08:15:41 2019

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. 0.00 min

Lab File: VL033789.D

Acq: 24 May 2019 1:24

Instrument :

MSVOA_L

ClientSampleId :

BPS1-DUP-01

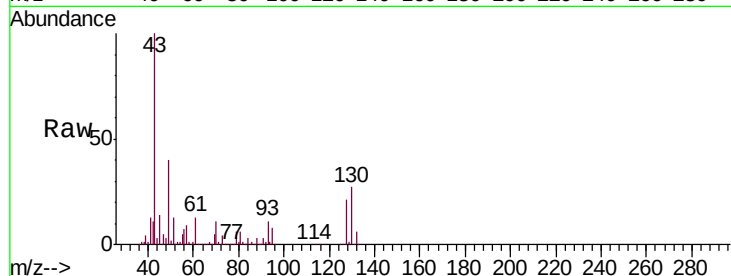
Tgt Ion: 49 Resp: 873942

Ion Ratio Lower Upper

49 100

128 53.4 25.2 75.6

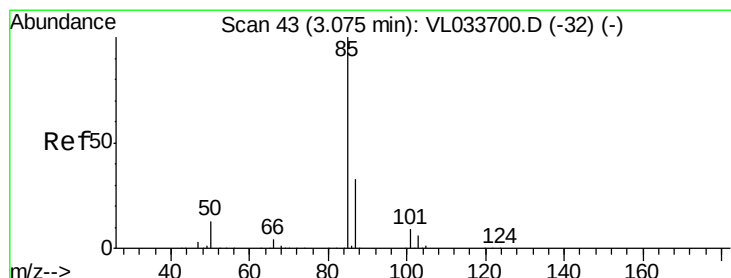
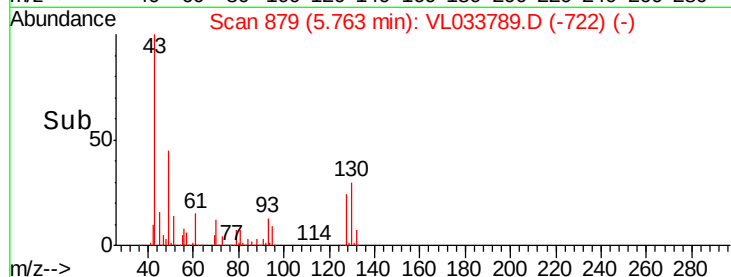
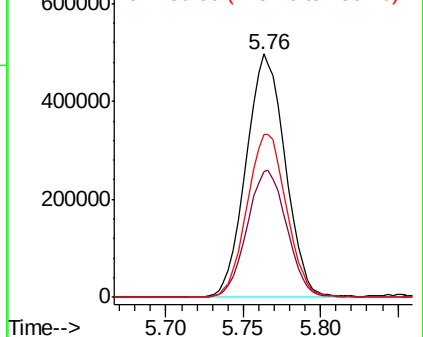
130 68.1 32.5 97.5



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: 0.467 ppbv

RT: 3.08 min Scan# 43

Delta R.T. 0.00 min

Lab File: VL033789.D

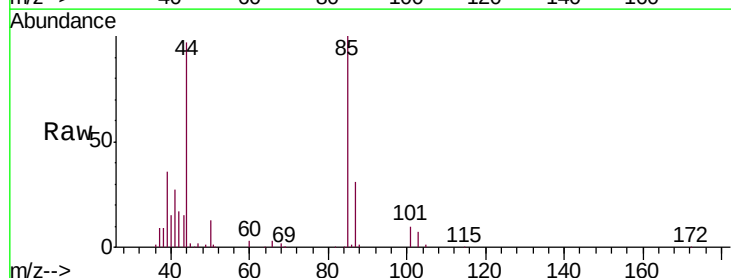
Acq: 24 May 2019 1:24

Tgt Ion: 85 Resp: 86078

Ion Ratio Lower Upper

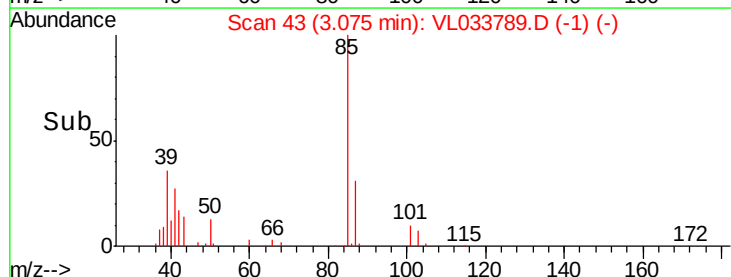
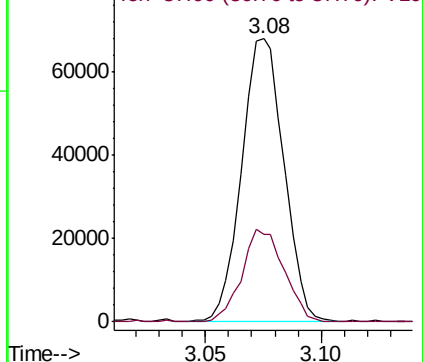
85 100

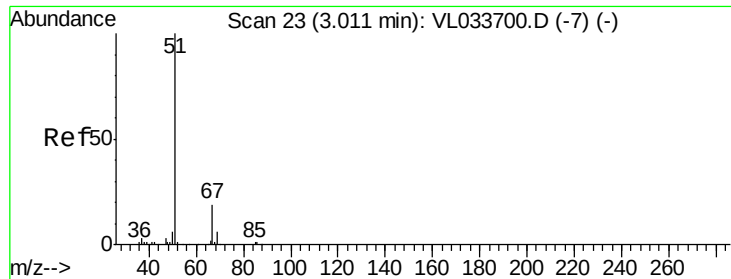
87 30.9 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

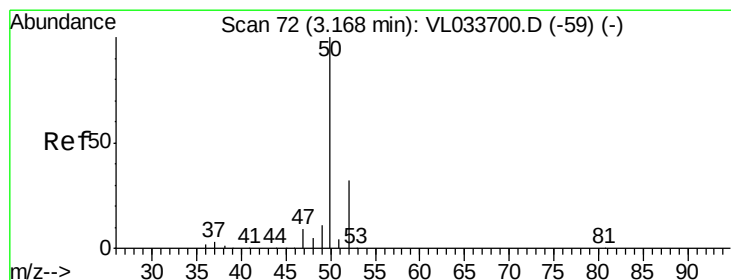
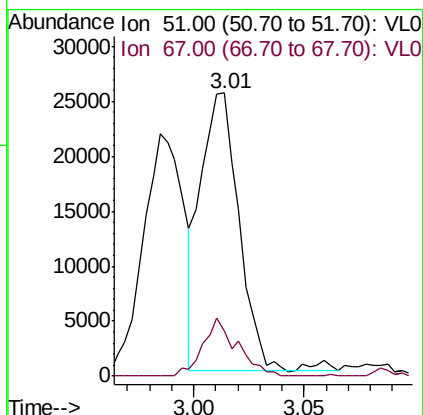
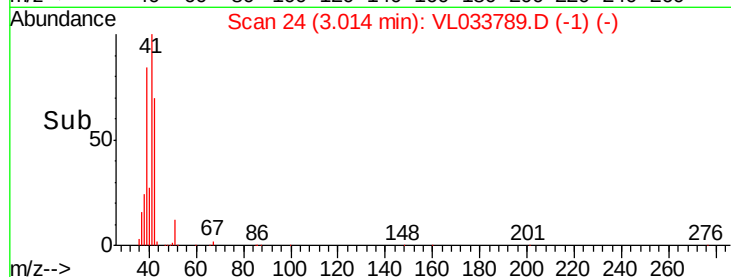
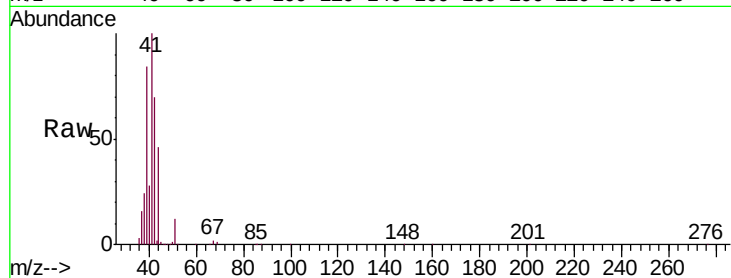




#3
Chlorodifluoromethane
Concen: 0.305 ppbv
RT: 3.01 min Scan# 24
Delta R.T. 0.00 min
Lab File: VL033789.D
Acq: 24 May 2019 1:24

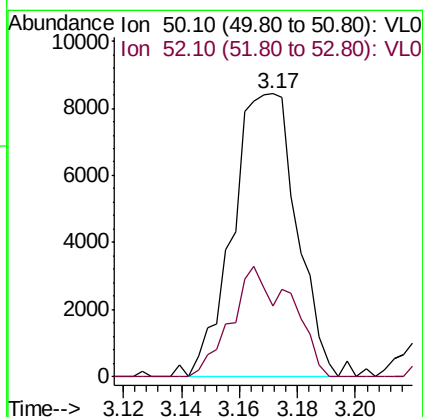
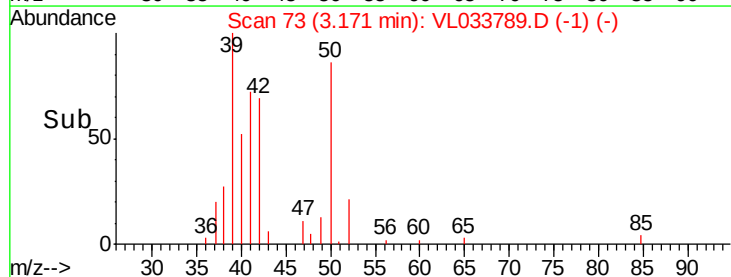
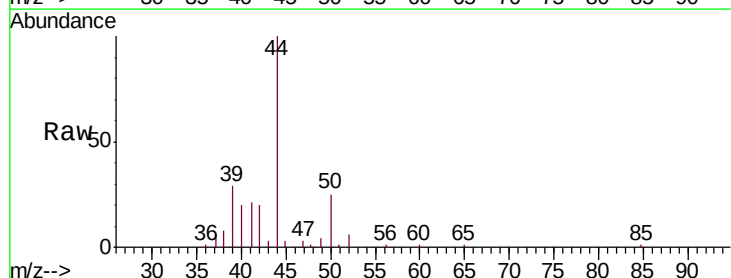
Instrument :
MSVOA_L
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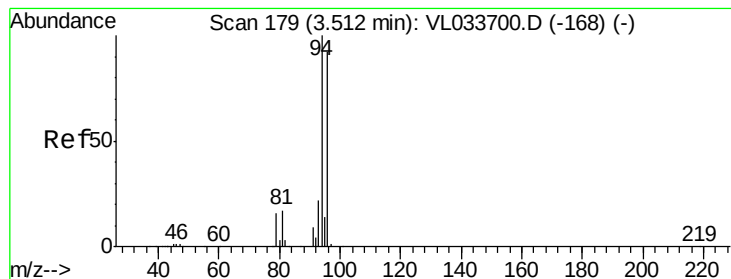
Tgt Ion: 51 Resp: 30559
Ion Ratio Lower Upper
51 100
67 18.6 15.6 23.4



#4
Chloromethane
Concen: 0.225 ppbv
RT: 3.17 min Scan# 73
Delta R.T. 0.00 min
Lab File: VL033789.D
Acq: 24 May 2019 1:24

Tgt Ion: 50 Resp: 12878
Ion Ratio Lower Upper
50 100
52 25.4 25.7 38.5#





#6

Bromomethane

Concen: 0.020 ppbv

RT: 3.52 min Scan# 181

Delta R.T. 0.01 min

Lab File: VL033789.D

Acq: 24 May 2019 1:24

Instrument :

MSVOA_L

ClientSampleId :

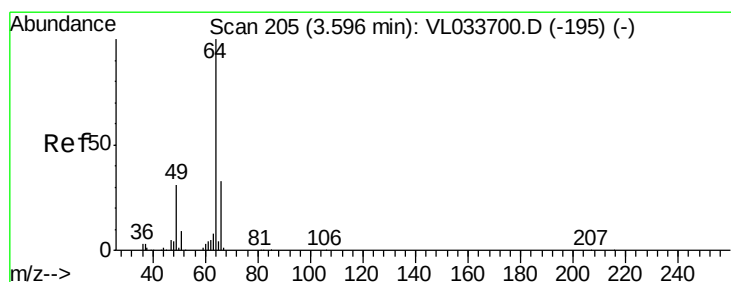
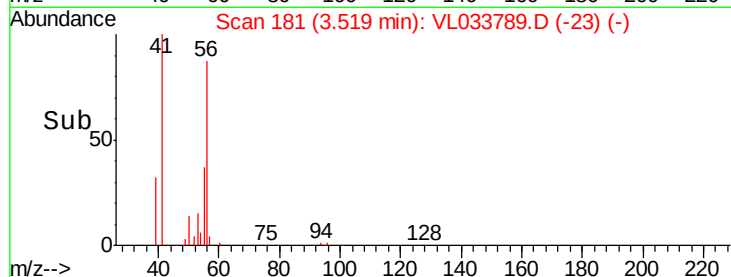
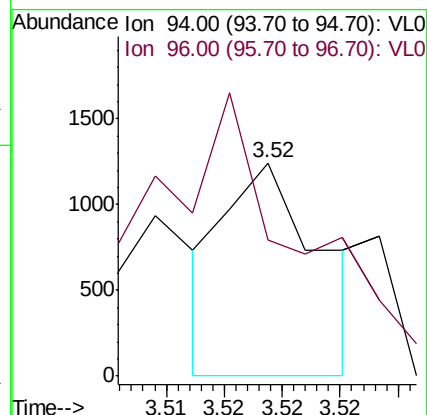
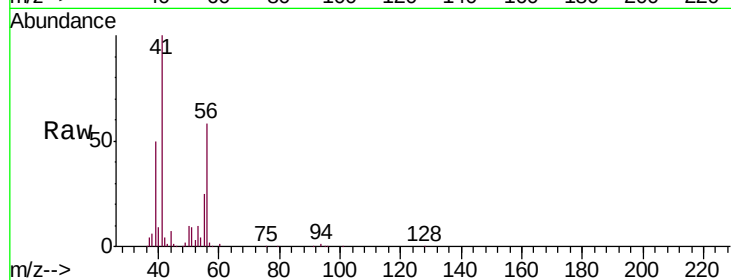
BPS1-DUP-01

Tgt Ion: 94 Resp: 711

Ion Ratio Lower Upper

94 100

96 0.0 73.6 110.4#



#7

Chloroethane

Concen: 0.026 ppbv

RT: 3.60 min Scan# 206

Delta R.T. 0.00 min

Lab File: VL033789.D

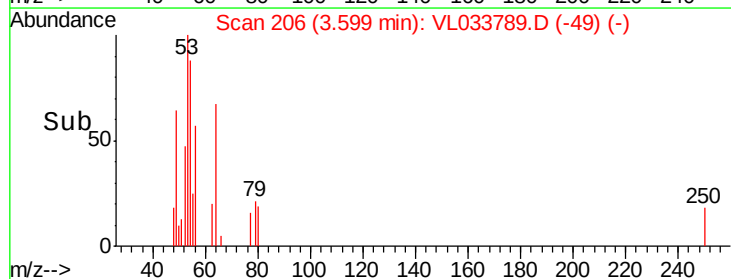
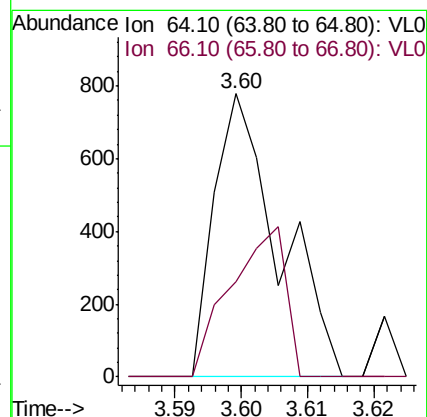
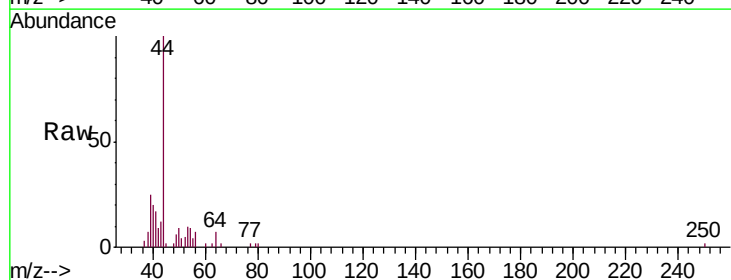
Acq: 24 May 2019 1:24

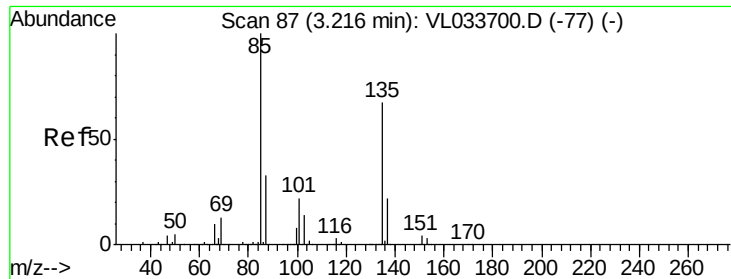
Tgt Ion: 64 Resp: 530

Ion Ratio Lower Upper

64 100

66 33.7 26.6 40.0





#8

Dichlorotetrafluoroethane

Concen: 0.014 ppbv

RT: 3.22 min Scan# 87

Delta R.T. 0.00 min

Lab File: VL033789.D

Acq: 24 May 2019 1:24

Instrument :

MSVOA_L

ClientSampleId :

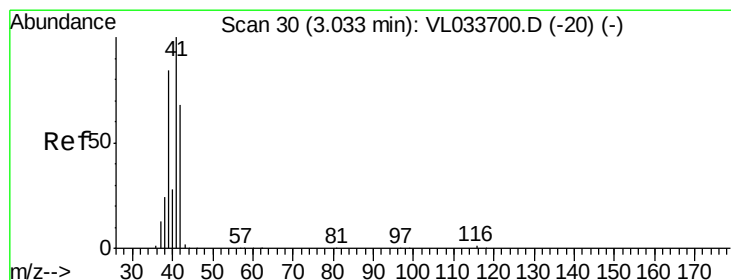
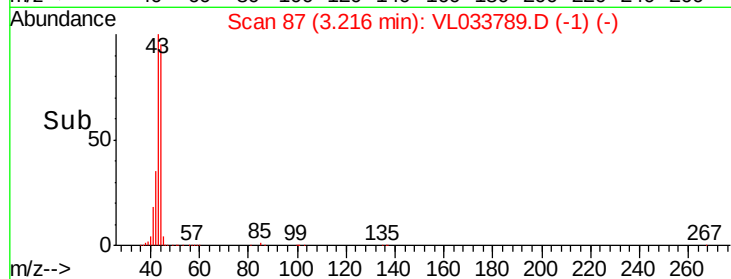
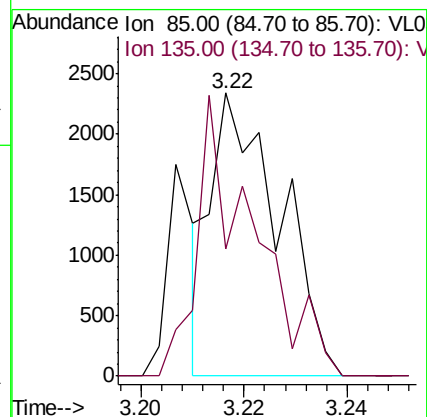
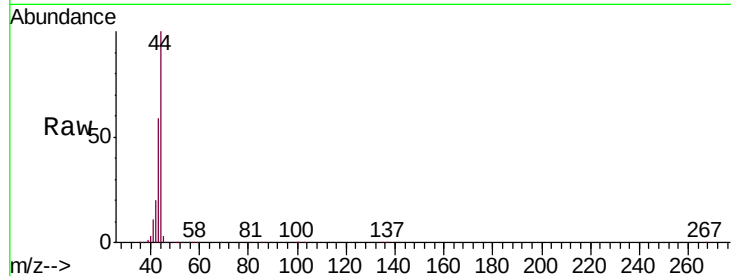
BPS1-DUP-01

Tgt Ion: 85 Resp: 2139

Ion Ratio Lower Upper

85 100

135 82.0 54.5 81.7#



#9

Propene

Concen: 124.045 ppbv

RT: 3.03 min Scan# 30

Delta R.T. 0.00 min

Lab File: VL033789.D

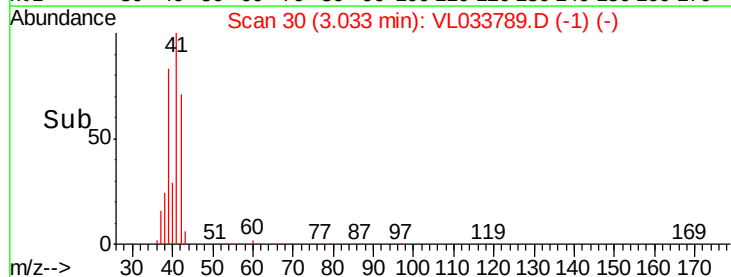
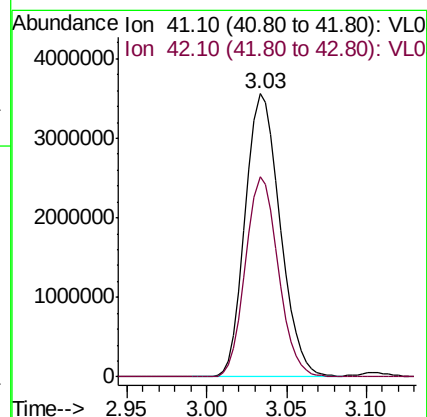
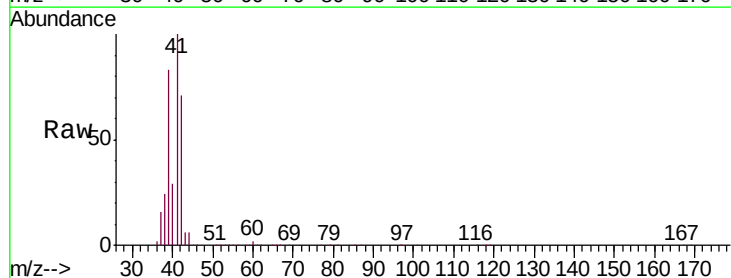
Acq: 24 May 2019 1:24

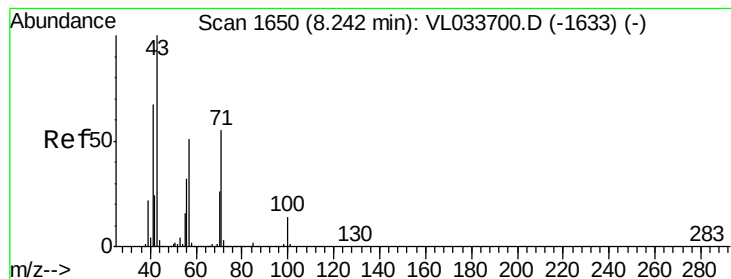
Tgt Ion: 41 Resp: 5281760

Ion Ratio Lower Upper

41 100

42 66.7 56.1 84.1

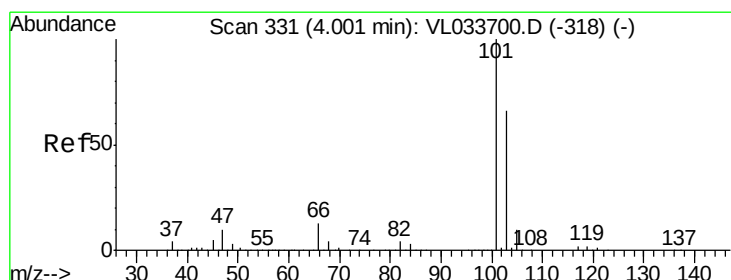
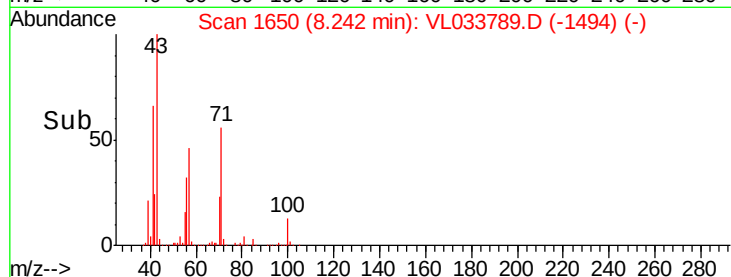
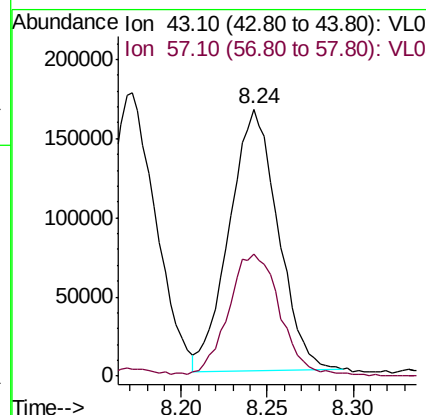
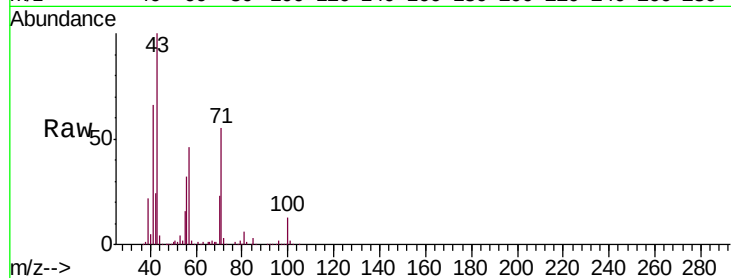




#10
 Heptane
 Concen: 2.684 ppbv
 RT: 8.24 min Scan# 1650
 Delta R.T. 0.00 min
 Lab File: VL033789.D
 Acq: 24 May 2019 1:24

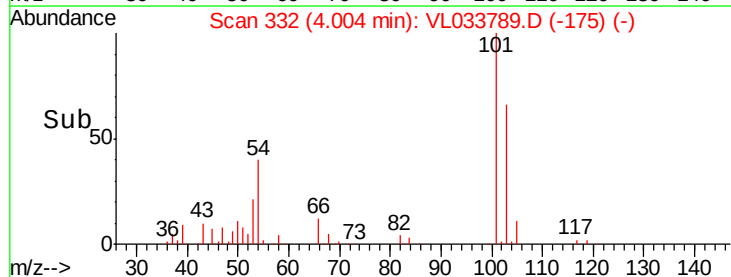
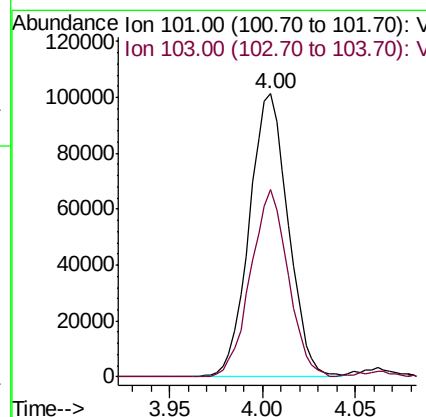
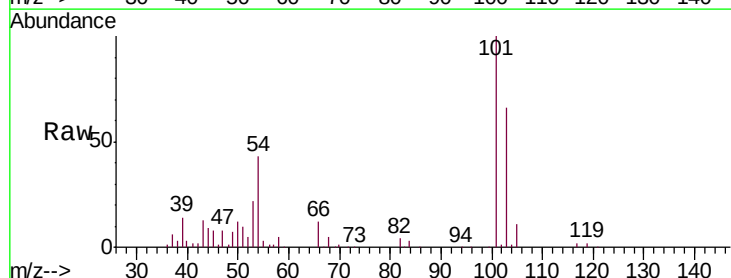
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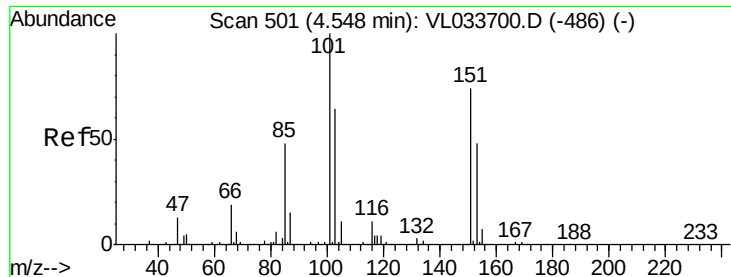
Tgt Ion: 43 Resp: 323604
 Ion Ratio Lower Upper
 43 100
 57 49.9 41.4 62.0



#11
 Trichlorofluoromethane
 Concen: 0.843 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. 0.00 min
 Lab File: VL033789.D
 Acq: 24 May 2019 1:24

Tgt Ion: 101 Resp: 148111
 Ion Ratio Lower Upper
 101 100
 103 66.4 52.6 78.8





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.141 ppbv

RT: 4.55 min Scan# 501

Delta R.T. 0.00 min

Lab File: VL033789.D

Acq: 24 May 2019 1:24

Instrument :

MSVOA_L

ClientSampleId :

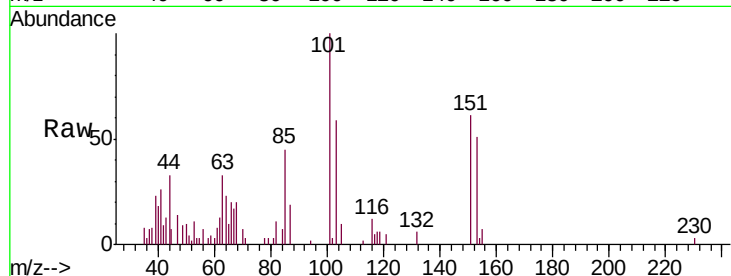
BPS1-DUP-01

Tgt Ion: 101 Resp: 17255

Ion Ratio Lower Upper

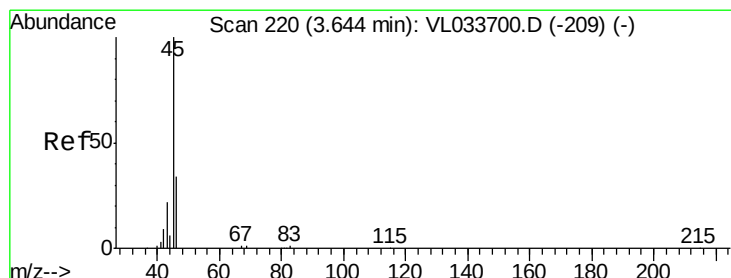
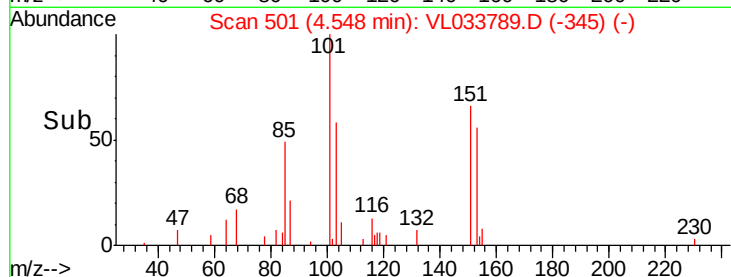
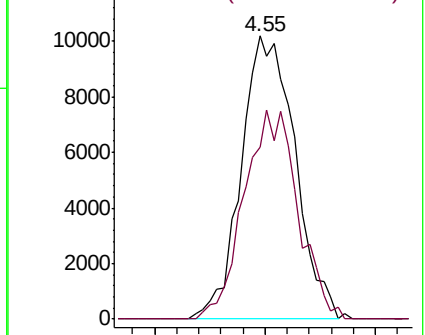
101 100

151 73.8 58.2 87.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 92.113 ppbv

RT: 3.66 min Scan# 224

Delta R.T. 0.01 min

Lab File: VL033789.D

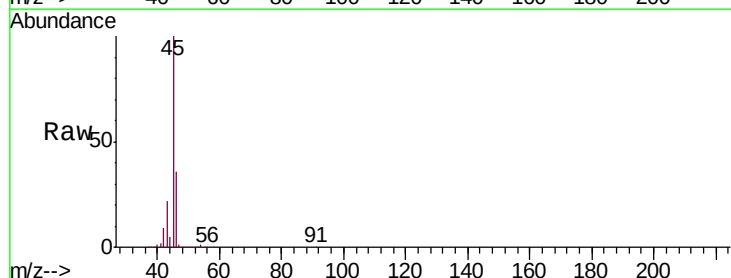
Acq: 24 May 2019 1:24

Tgt Ion: 45 Resp: 1267678

Ion Ratio Lower Upper

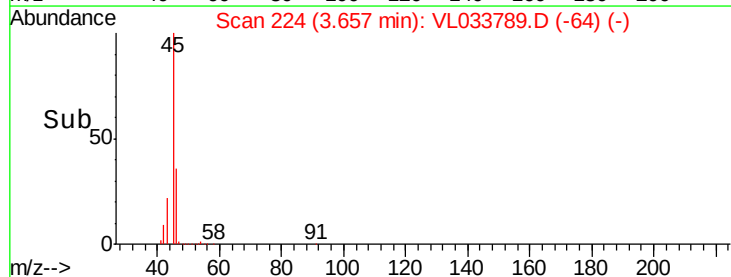
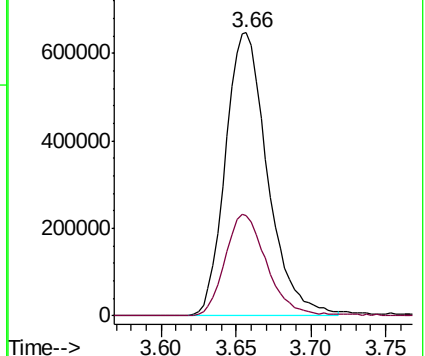
45 100

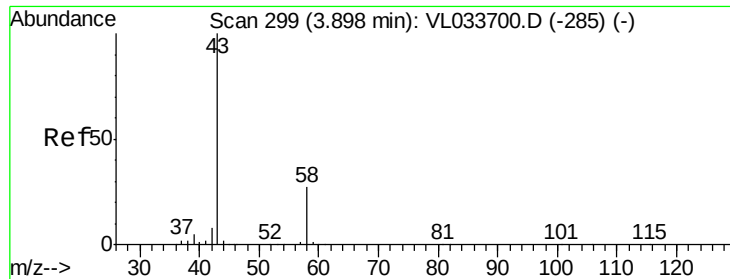
46 36.1 14.8 59.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 83.317 ppbv

RT: 3.89 min Scan# 298

Delta R.T. -0.00 min

Lab File: VL033789.D

Acq: 24 May 2019 1:24

Instrument :

MSVOA_L

ClientSampleId :

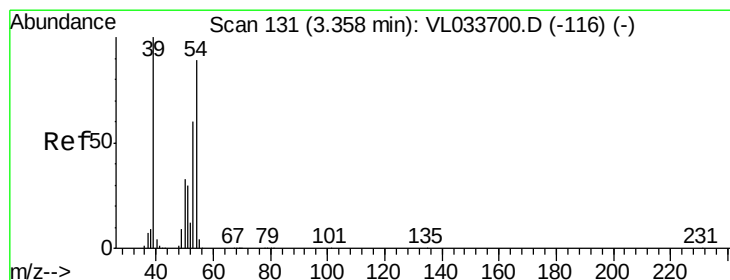
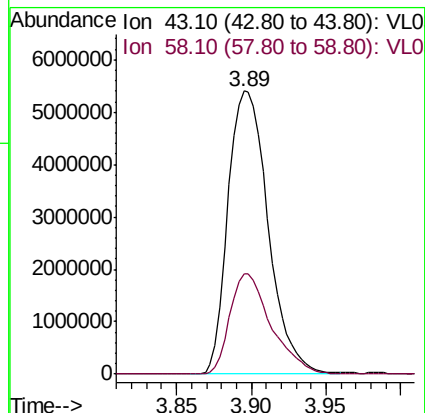
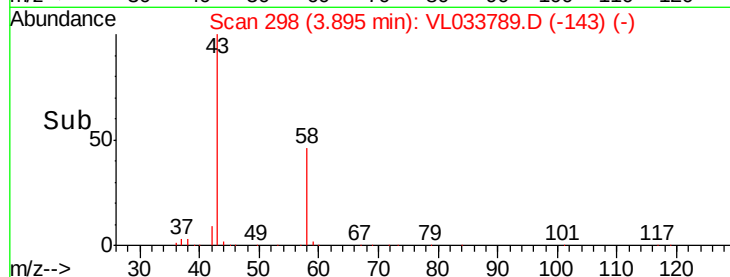
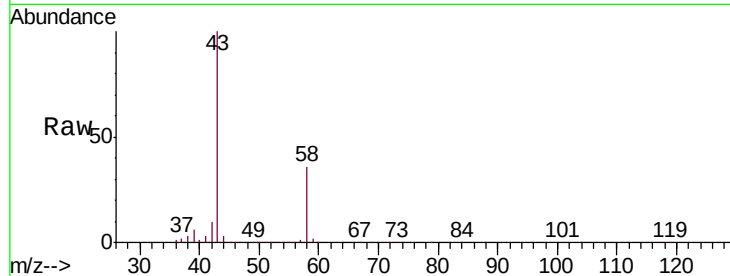
BPS1-DUP-01

Tgt Ion: 43 Resp:10102595

Ion Ratio Lower Upper

43 100

58 36.6 21.3 31.9#



#16

1,3-Butadiene

Concen: 61.148 ppbv

RT: 3.34 min Scan# 126

Delta R.T. -0.02 min

Lab File: VL033789.D

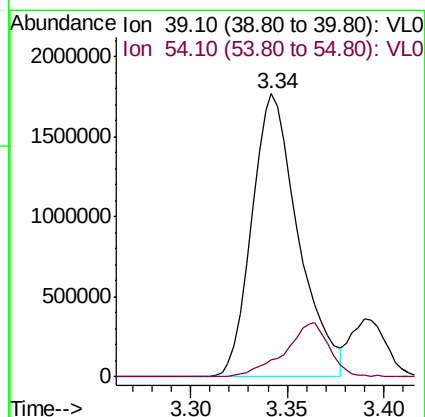
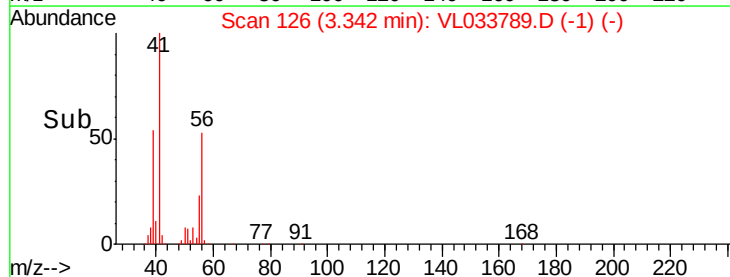
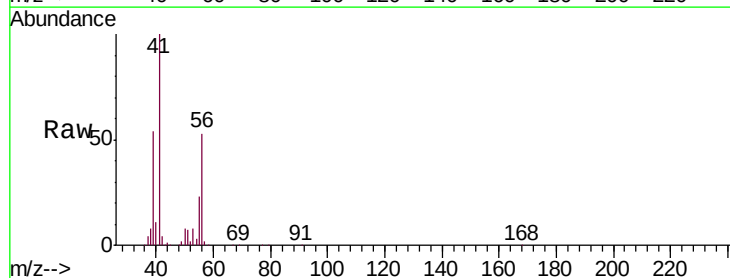
Acq: 24 May 2019 1:24

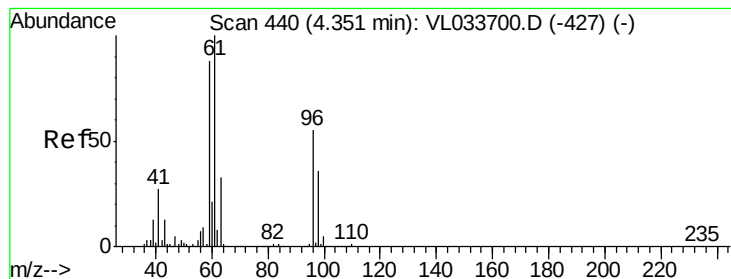
Tgt Ion: 39 Resp: 2952596

Ion Ratio Lower Upper

39 100

54 18.6 69.0 103.6#





#17

tert-Butyl alcohol

Concen: 4.132 ppbv

RT: 4.36 min Scan# 444

Delta R.T. 0.01 min

Lab File: VL033789.D

Acq: 24 May 2019 1:24

Instrument :

MSVOA_L

ClientSampleId :

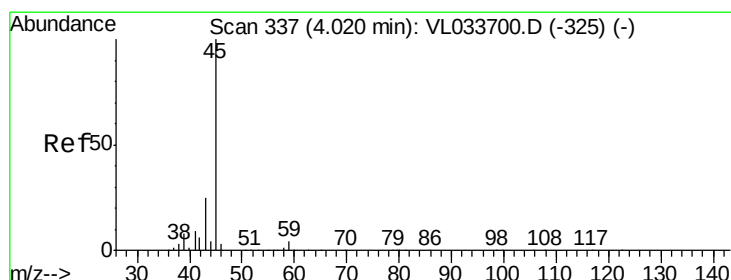
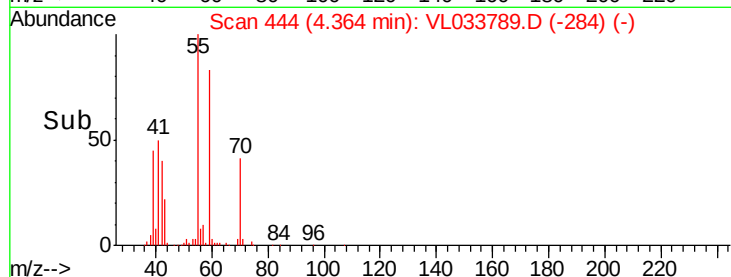
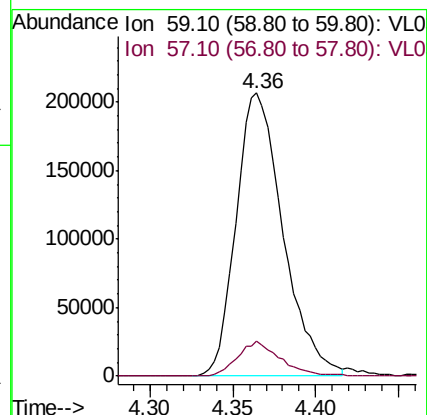
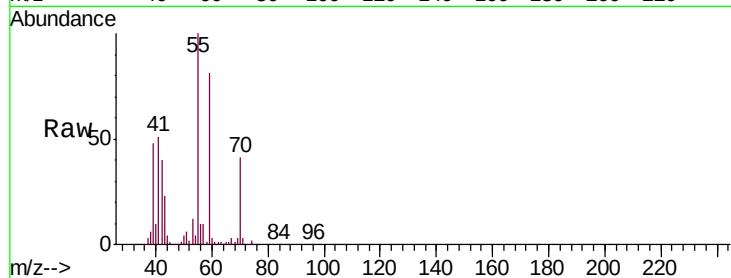
BPS1-DUP-01

Tgt Ion: 59 Resp: 405121

Ion Ratio Lower Upper

59 100

57 11.7 8.4 12.6



#19

Isopropyl Alcohol

Concen: 5.269 ppbv

RT: 4.03 min Scan# 341

Delta R.T. 0.01 min

Lab File: VL033789.D

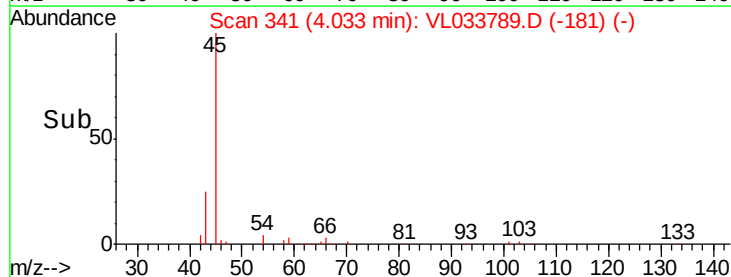
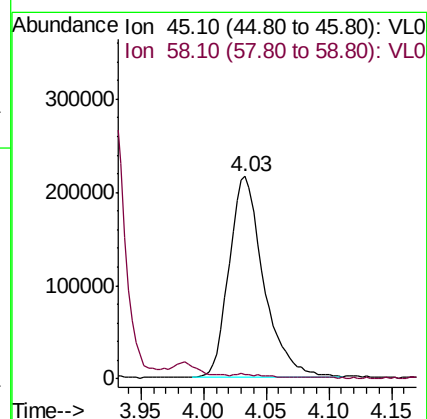
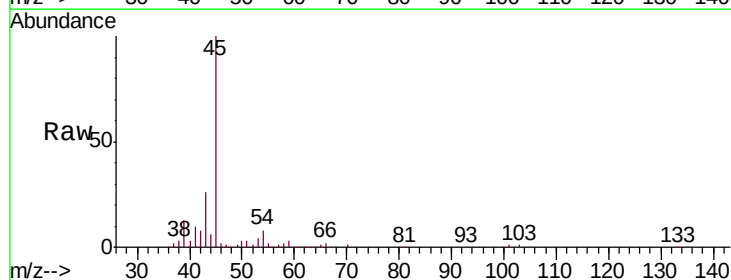
Acq: 24 May 2019 1:24

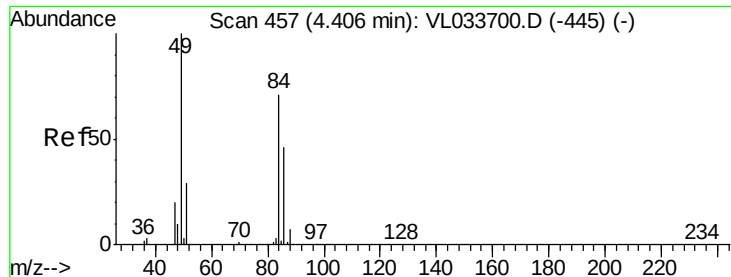
Tgt Ion: 45 Resp: 411981

Ion Ratio Lower Upper

45 100

58 0.0 1.6 2.4#

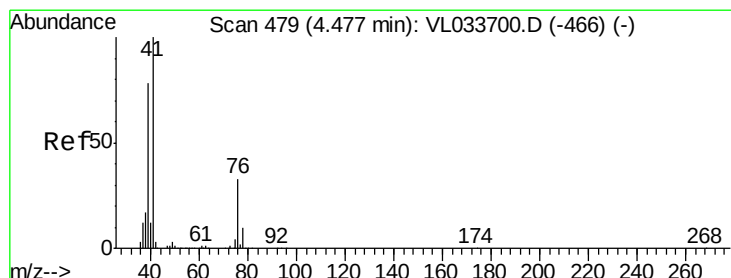
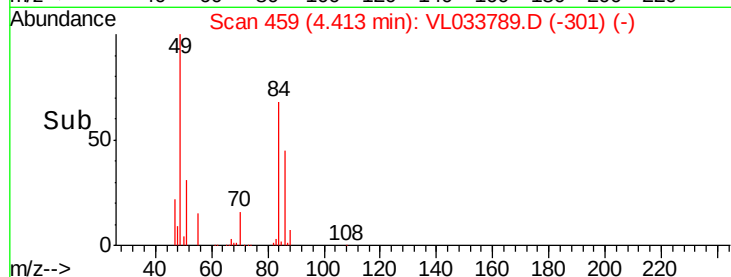
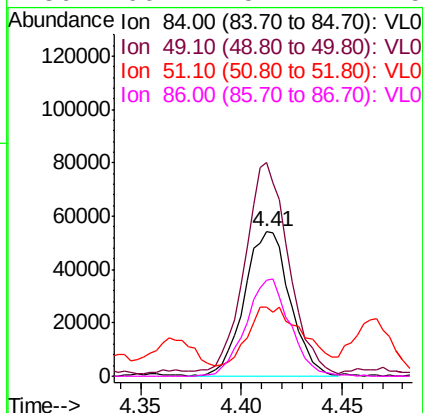
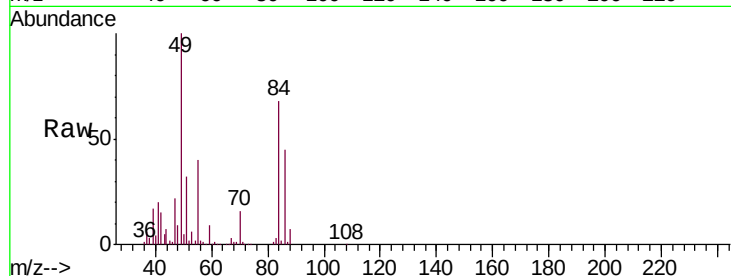




#20
Methylene Chloride
Concen: 1.847 ppbv
RT: 4.41 min Scan# 459
Delta R.T. 0.01 min
Lab File: VL033789.D
Acq: 24 May 2019 1:24

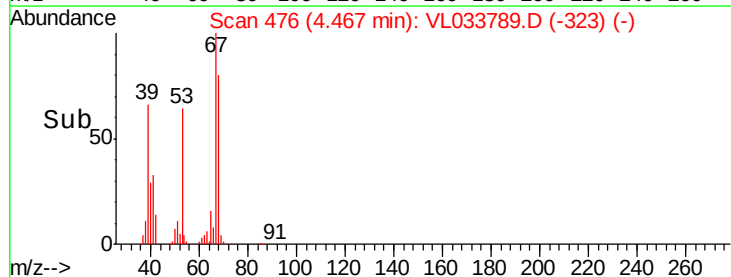
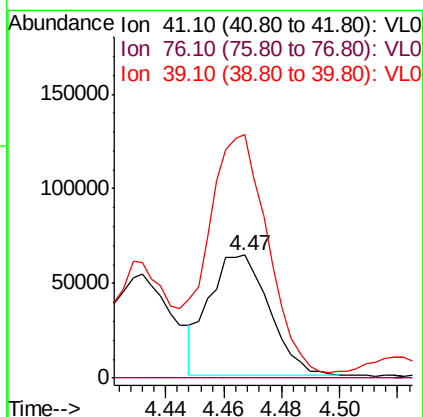
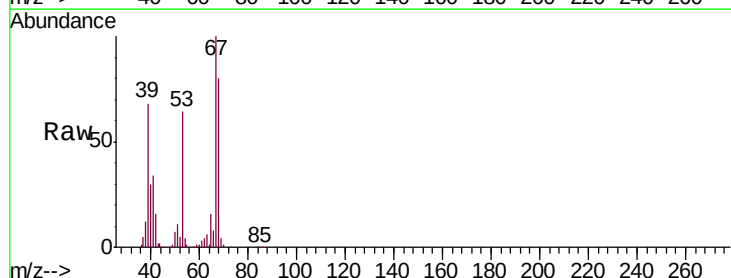
Instrument :
MSVOA_L
ClientSampleId :
BPS1-DUP-01

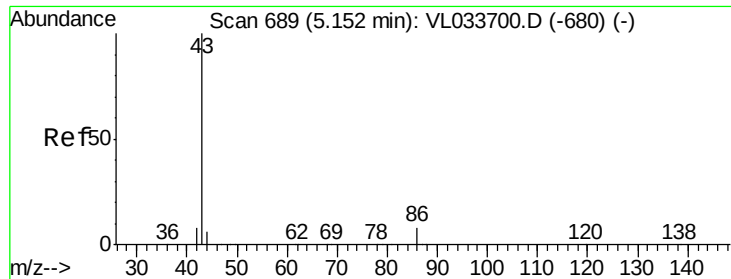
Tgt Ion:	84	Resp:	86219
Ion	Ratio	Lower	Upper
84	100		
49	146.0	112.8	169.2
51	35.2	33.4	50.0
86	66.4	51.7	77.5



#21
Allyl Chloride
Concen: 1.206 ppbv
RT: 4.47 min Scan# 476
Delta R.T. -0.01 min
Lab File: VL033789.D
Acq: 24 May 2019 1:24

Tgt Ion:	41	Resp:	91216
Ion	Ratio	Lower	Upper
41	100		
76	0.0	25.9	38.9#
39	282.7	64.6	97.0#





#23

Vinyl Acetate

Concen: 1.709 ppbv

RT: 5.15 min Scan# 687

Delta R.T. -0.01 min

Lab File: VL033789.D

Acq: 24 May 2019 1:24

Instrument :

MSVOA_L

ClientSampleId :

BPS1-DUP-01

Tgt Ion: 43 Resp: 273266

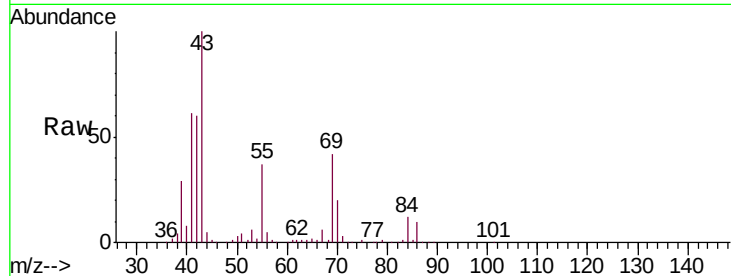
Ion Ratio Lower Upper

43 100

86 9.9 6.0 9.0#

42 58.9 7.5 11.3#

44 2.2 4.4 6.6#

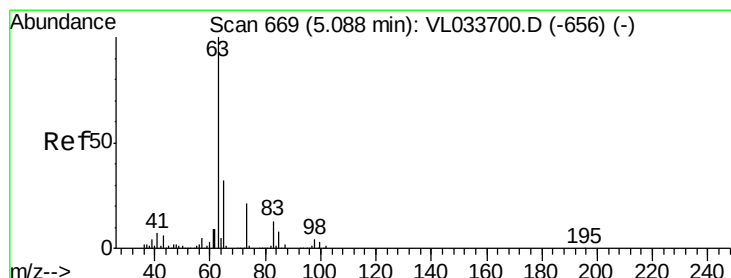
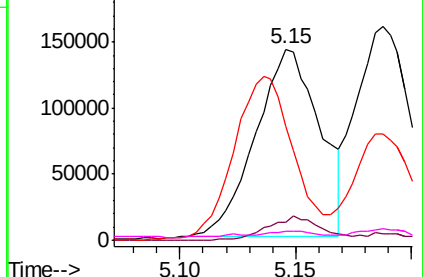
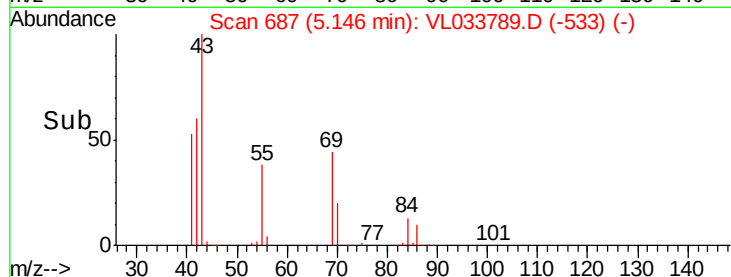


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 0.023 ppbv

RT: 5.13 min Scan# 682

Delta R.T. 0.04 min

Lab File: VL033789.D

Acq: 24 May 2019 1:24

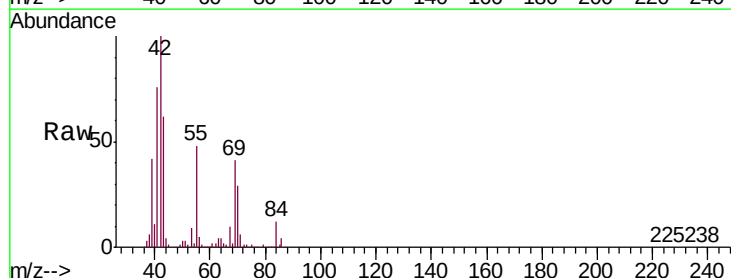
Tgt Ion: 63 Resp: 2787

Ion Ratio Lower Upper

63 100

98 0.0 1.8 5.5#

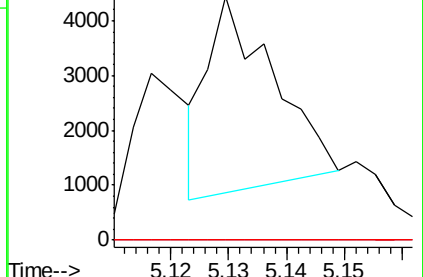
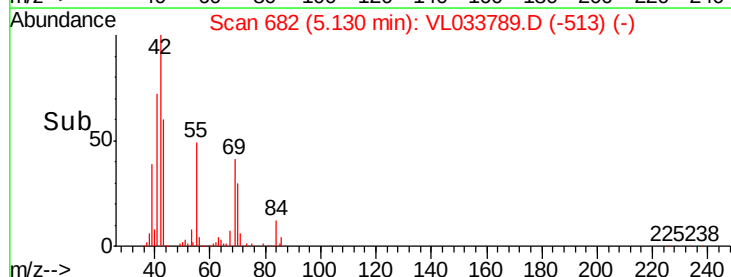
100 0.0 1.4 4.2#

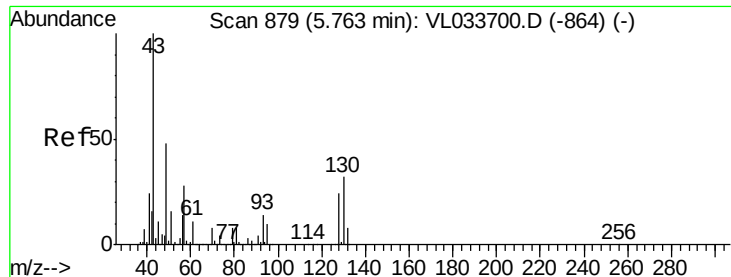


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 11.790 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033789.D

Acq: 24 May 2019 1:24

Instrument :

MSVOA_L

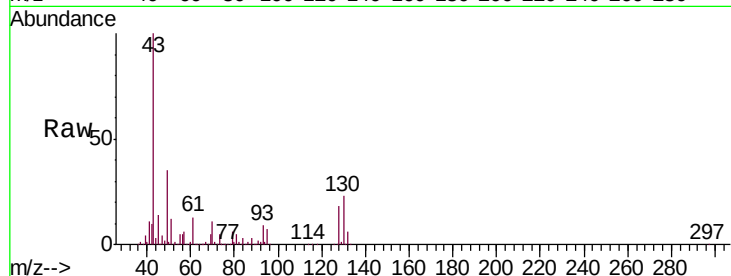
ClientSampleId :

BPS1-DUP-01

Tgt Ion: 43 Resp: 2511295

Ion	Ratio	Lower	Upper
43	100		
45	12.8	7.9	11.9#
61	12.3	7.7	11.5#
70	9.4	5.8	8.6#

43	100		
45	12.8	7.9	11.9#
61	12.3	7.7	11.5#
70	9.4	5.8	8.6#



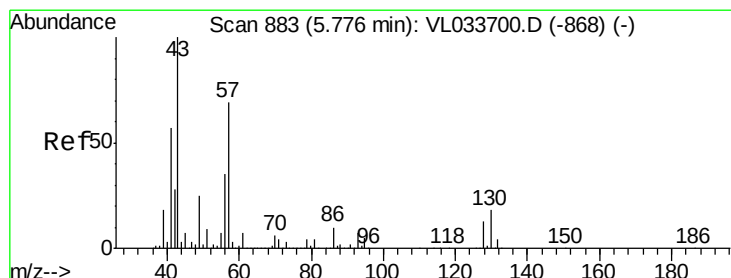
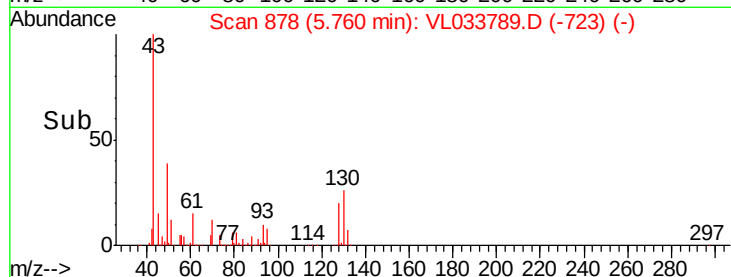
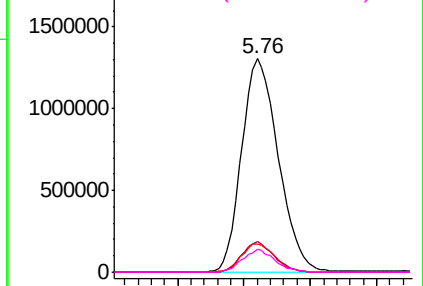
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 4.702 ppbv

RT: 5.78 min Scan# 883

Delta R.T. 0.00 min

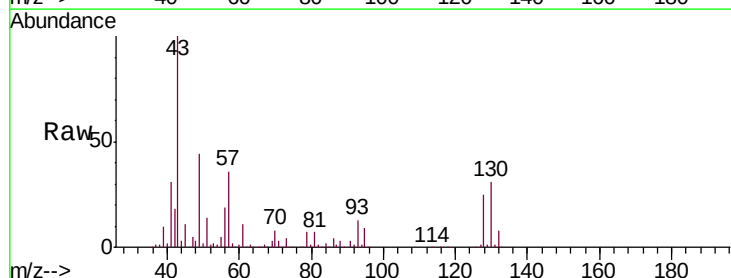
Lab File: VL033789.D

Acq: 24 May 2019 1:24

Tgt Ion: 57 Resp: 430590

Ion	Ratio	Lower	Upper
57	100		
41	115.6	69.8	104.6#
43	584.0	181.8	272.6#
56	62.2	42.1	63.1

57	100		
41	115.6	69.8	104.6#
43	584.0	181.8	272.6#
56	62.2	42.1	63.1



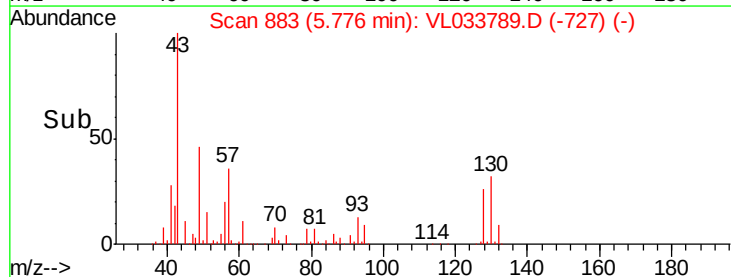
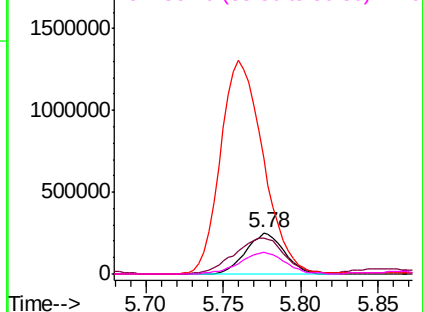
Abundance

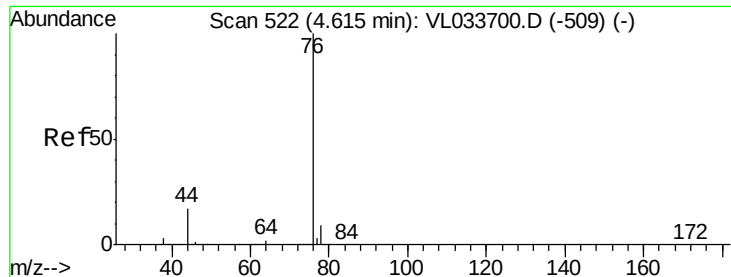
Ion 57.10 (56.80 to 57.80): VL0

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: 1.984 ppbv

RT: 4.62 min Scan# 523

Delta R.T. 0.00 min

Lab File: VL033789.D

Acq: 24 May 2019 1:24

Instrument :

MSVOA_L

ClientSampleId :

BPS1-DUP-01

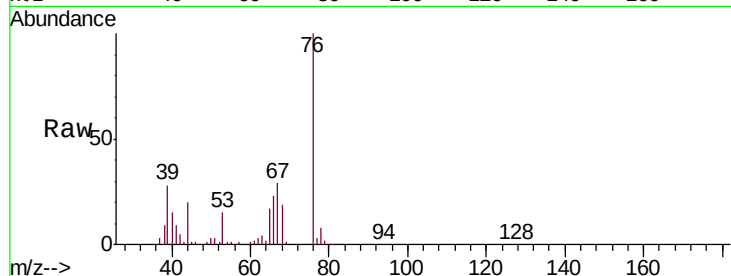
Tgt Ion: 76 Resp: 249286

Ion Ratio Lower Upper

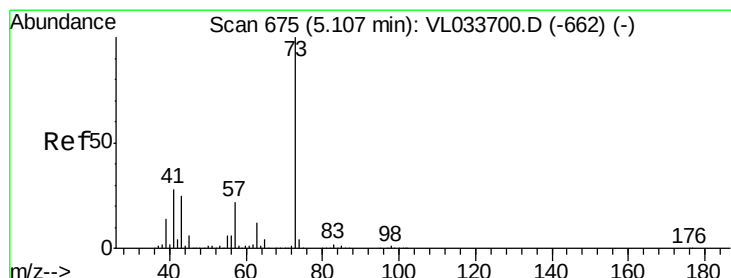
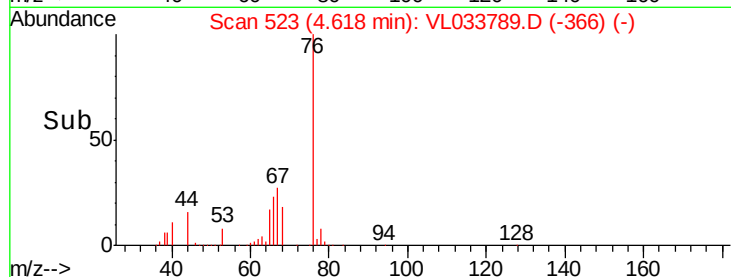
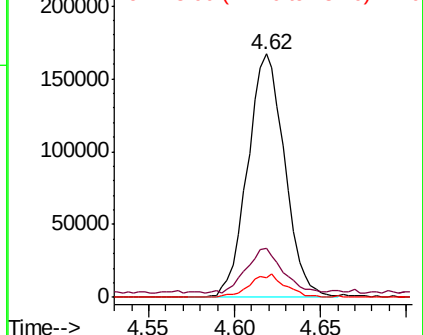
76 100

44 19.0 13.8 20.8

78 9.5 7.4 11.0



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: 0.030 ppbv

RT: 5.11 min Scan# 676

Delta R.T. 0.00 min

Lab File: VL033789.D

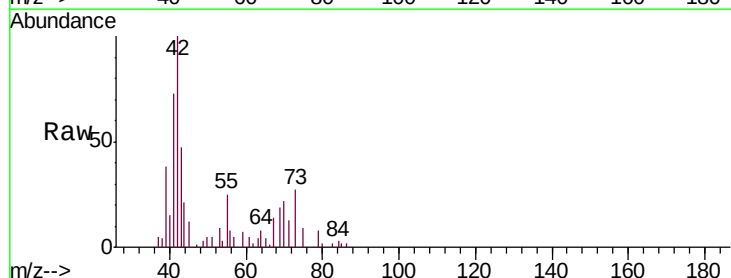
Acq: 24 May 2019 1:24

Tgt Ion: 73 Resp: 4522

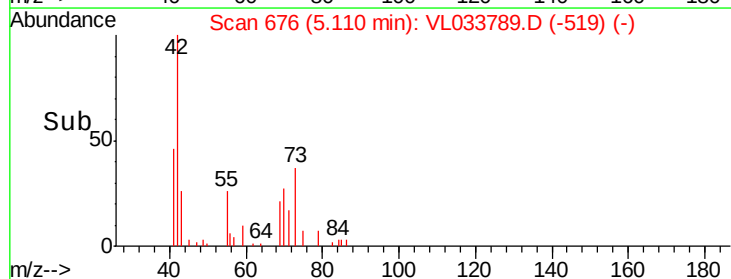
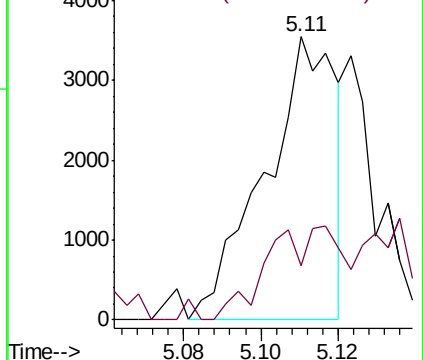
Ion Ratio Lower Upper

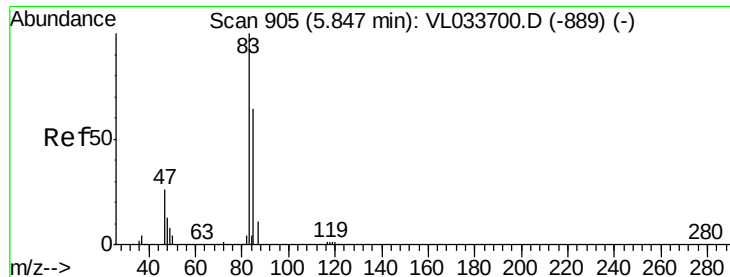
73 100

57 0.0 17.4 26.2#



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0

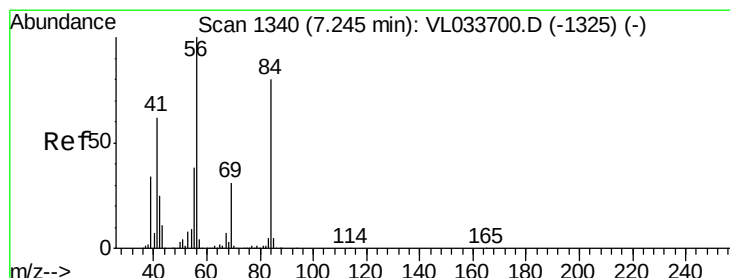
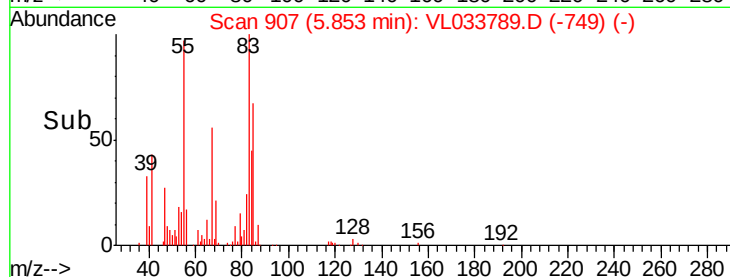
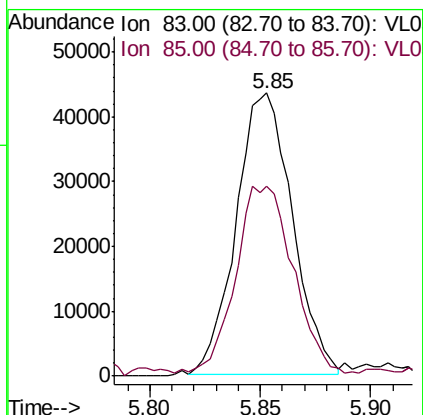
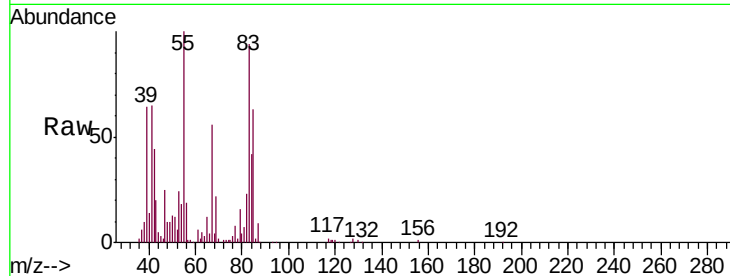




#29
Chloroform
Concen: 0.452 ppbv
RT: 5.85 min Scan# 907
Delta R.T. 0.01 min
Lab File: VL033789.D
Acq: 24 May 2019 1:24

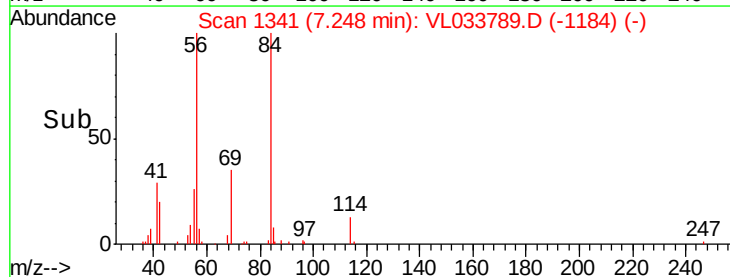
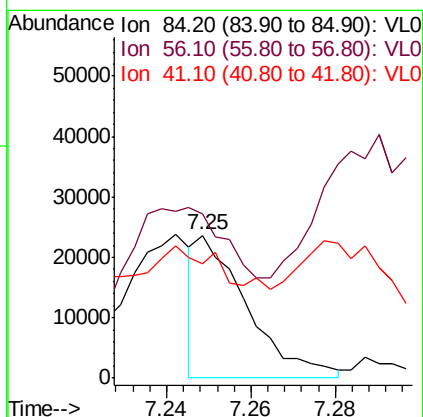
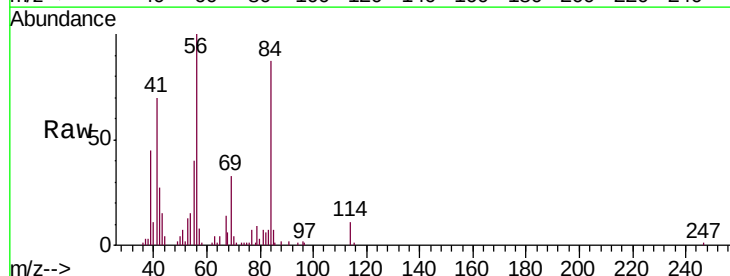
Instrument :
MSVOA_L
ClientSampleId :
BPS1-DUP-01

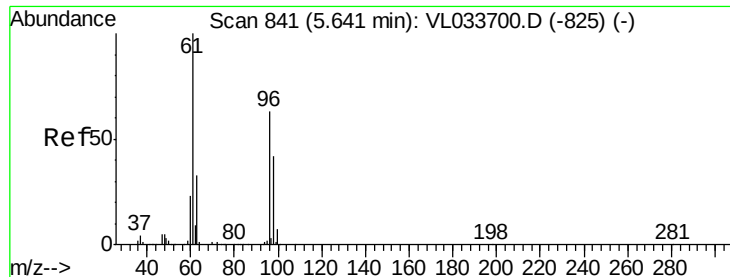
Tgt Ion: 83 Resp: 76314
Ion Ratio Lower Upper
83 100
85 68.0 51.5 77.3



#30
Cyclohexane
Concen: 0.256 ppbv
RT: 7.25 min Scan# 1341
Delta R.T. 0.00 min
Lab File: VL033789.D
Acq: 24 May 2019 1:24

Tgt Ion: 84 Resp: 19741
Ion Ratio Lower Upper
84 100
56 305.8 107.7 161.5#
41 0.0 66.0 99.0#





#31

cis-1,2-Dichloroethene

Concen: 3.352 ppbv

RT: 5.76 min Scan# 878

Delta R.T. 0.12 min

Lab File: VL033789.D

Acq: 24 May 2019 1:24

Instrument :

MSVOA_L

ClientSampleId :

BPS1-DUP-01

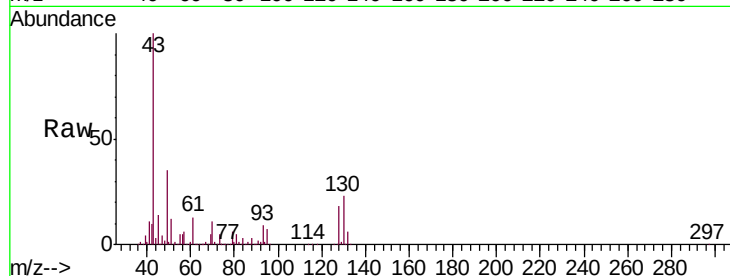
Tgt Ion: 61 Resp: 304329

Ion Ratio Lower Upper

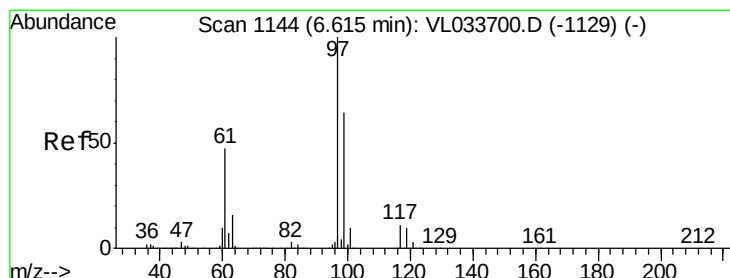
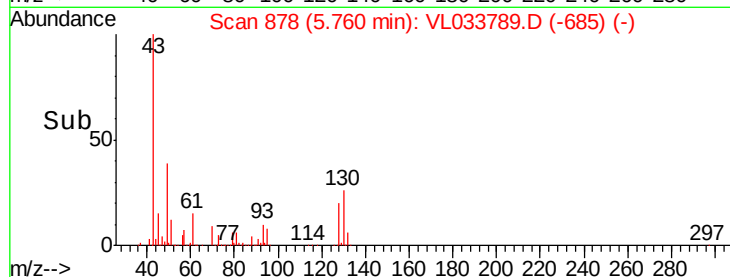
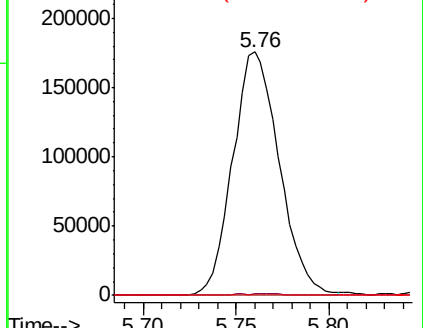
61 100

96 0.7 50.8 76.2#

98 0.0 33.3 49.9#



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 0.039 ppbv

RT: 6.62 min Scan# 1145

Delta R.T. 0.00 min

Lab File: VL033789.D

Acq: 24 May 2019 1:24

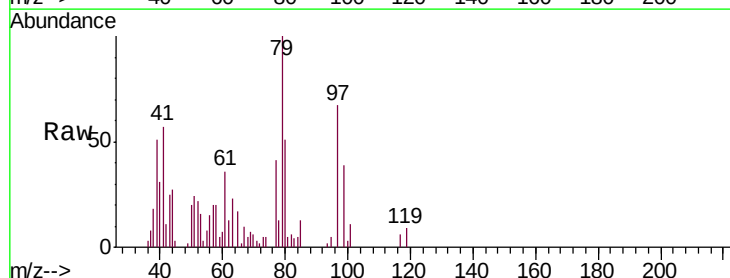
Tgt Ion: 97 Resp: 6588

Ion Ratio Lower Upper

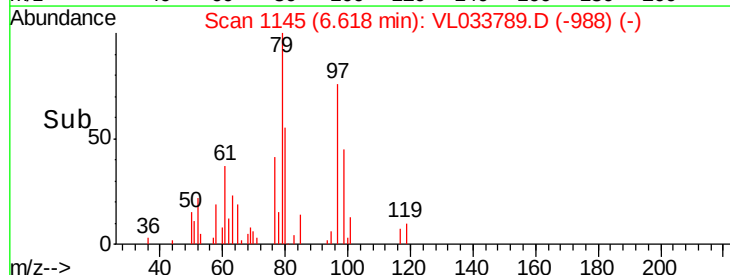
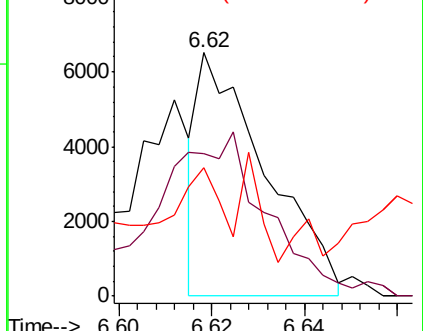
97 100

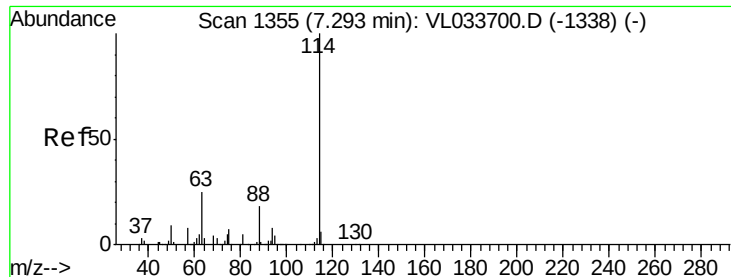
99 112.8 51.5 77.3#

61 74.1 37.8 56.8#



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0

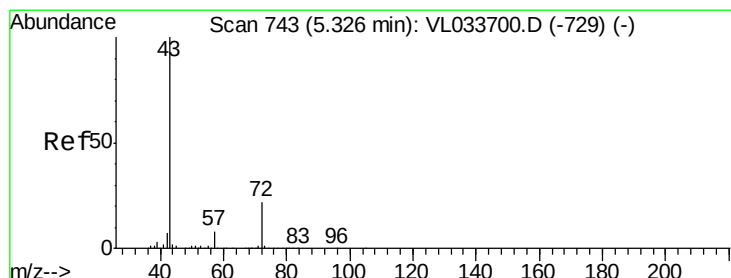
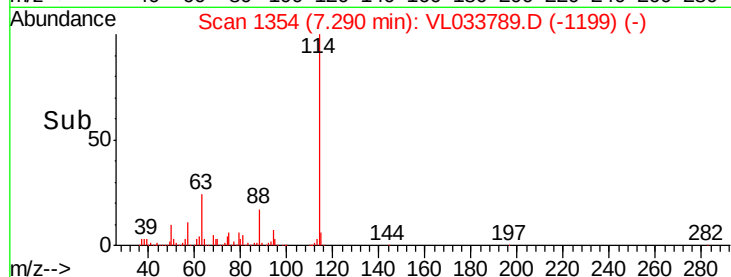
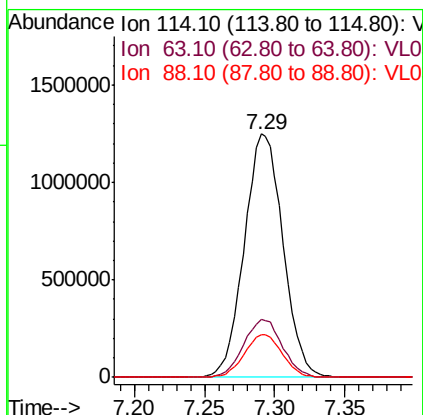
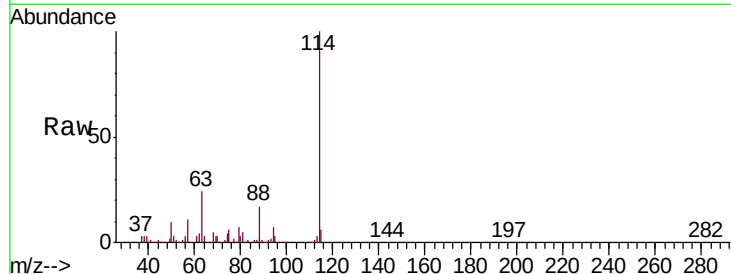




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. -0.00 min
 Lab File: VL033789.D
 Acq: 24 May 2019 1:24

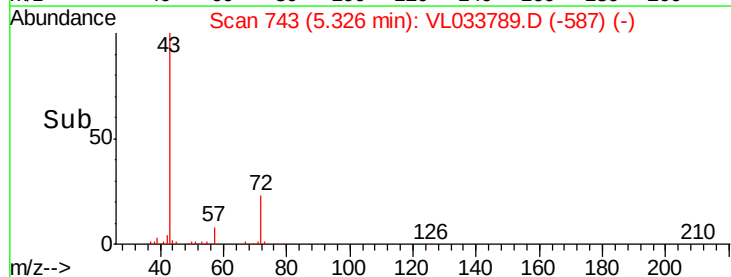
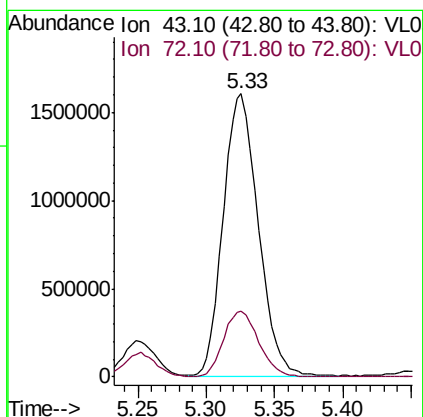
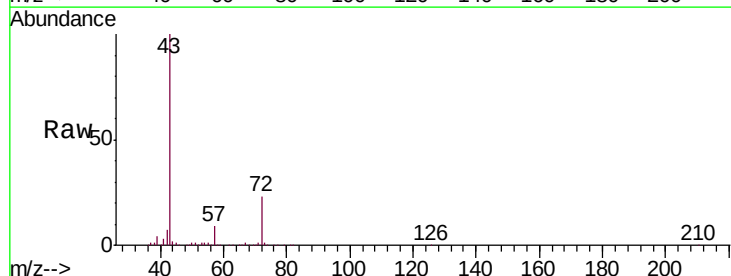
Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-DUP-01

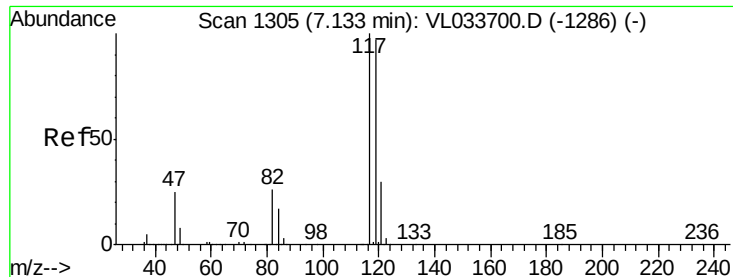
Tgt Ion:114 Resp: 2397251
 Ion Ratio Lower Upper
 114 100
 63 23.7 20.9 31.3
 88 17.3 14.3 21.5



#34
 2-Butanone
 Concen: 19.175 ppbv
 RT: 5.33 min Scan# 743
 Delta R.T. 0.00 min
 Lab File: VL033789.D
 Acq: 24 May 2019 1:24

Tgt Ion: 43 Resp: 2849278
 Ion Ratio Lower Upper
 43 100
 72 23.4 17.8 26.6





#35

Carbon Tetrachloride

Concen: 0.012 ppbv

RT: 7.13 min Scan# 1305

Delta R.T. 0.00 min

Lab File: VL033789.D

Acq: 24 May 2019 1:24

Instrument :

MSVOA_L

ClientSampleId :

BPS1-DUP-01

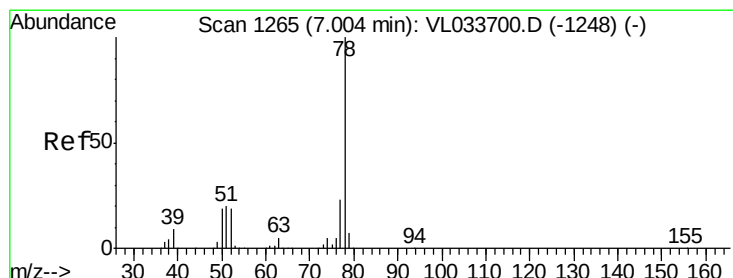
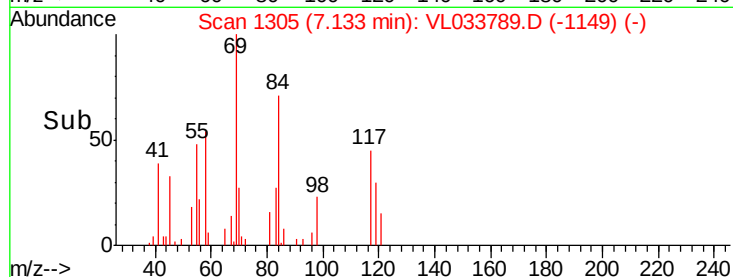
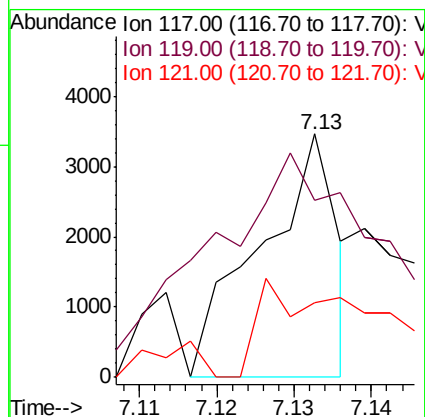
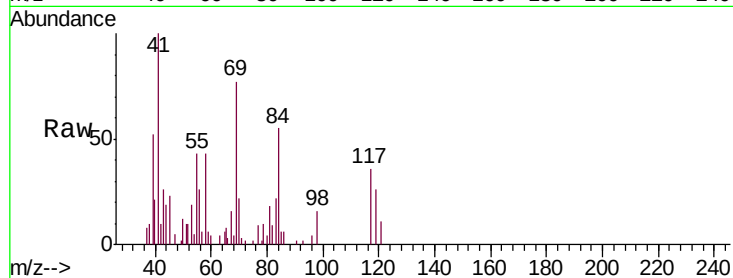
Tgt Ion: 117 Resp: 2390

Ion Ratio Lower Upper

117 100

119 24.7 77.2 115.8#

121 16.1 24.1 36.1#



#36

Benzene

Concen: 2.377 ppbv

RT: 7.00 min Scan# 1264

Delta R.T. -0.00 min

Lab File: VL033789.D

Acq: 24 May 2019 1:24

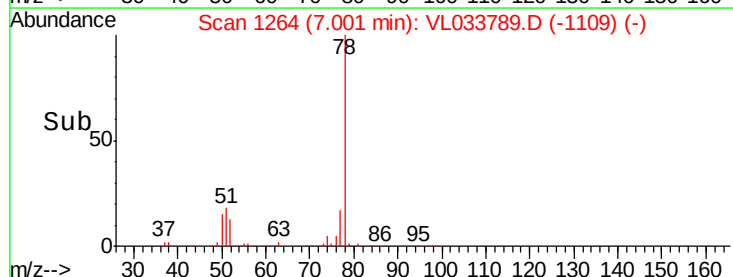
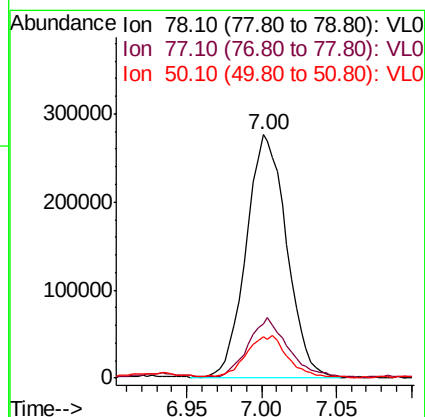
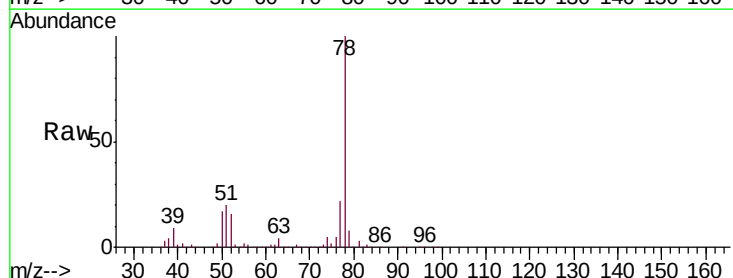
Tgt Ion: 78 Resp: 518332

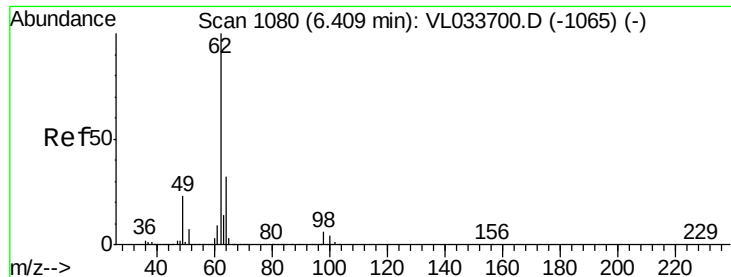
Ion Ratio Lower Upper

78 100

77 21.4 18.4 27.6

50 16.4 15.5 23.3

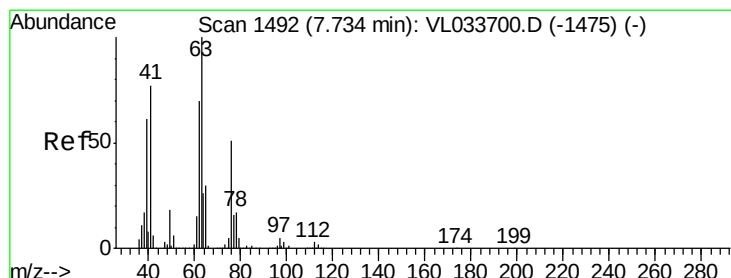
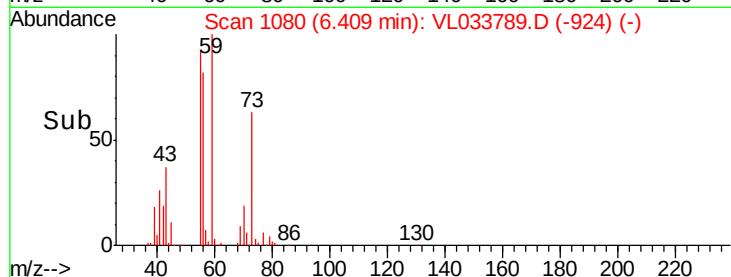
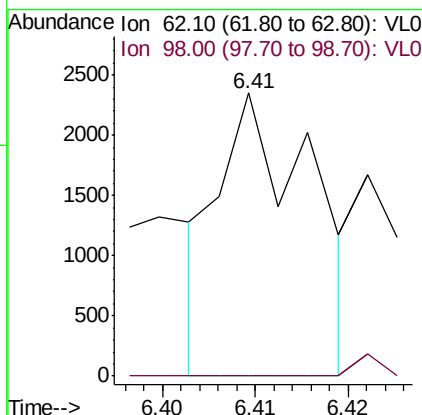
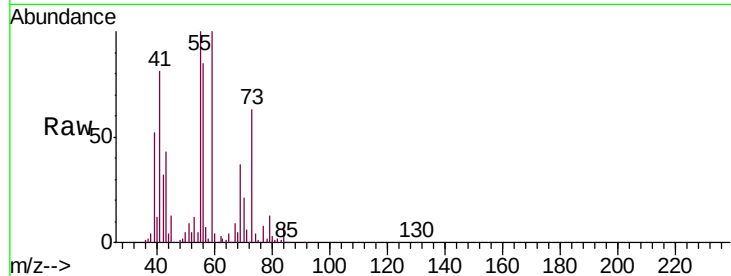




#37
 1,2-Dichloroethane
 Concen: 0.012 ppbv
 RT: 6.41 min Scan# 1080
 Delta R.T. 0.00 min
 Lab File: VL033789.D
 Acq: 24 May 2019 1:24

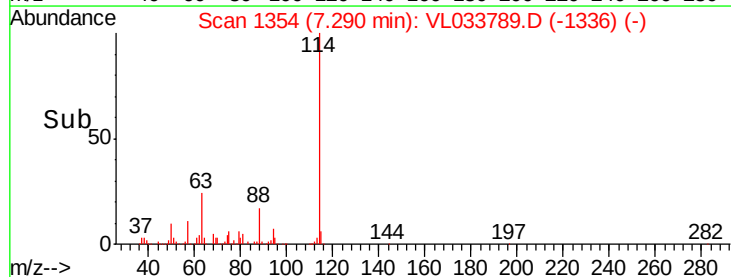
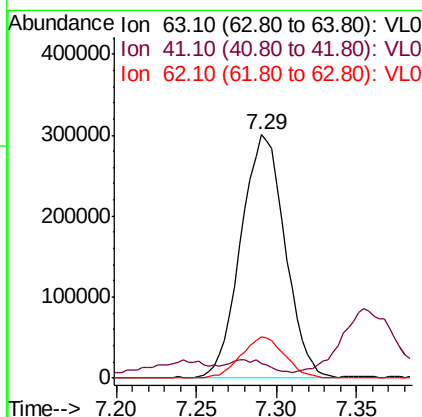
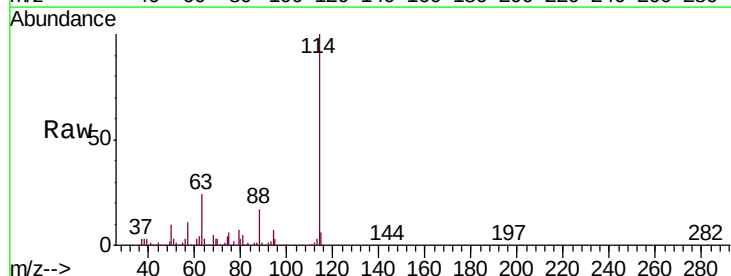
Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-DUP-01

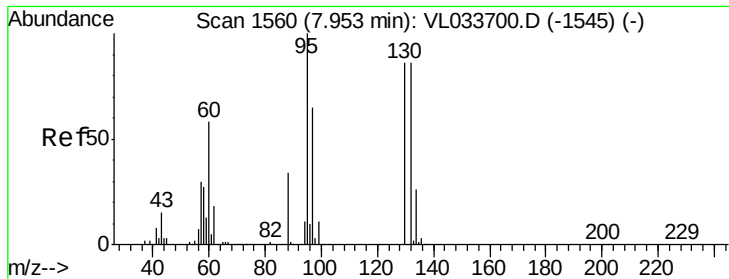
Tgt Ion: 62 Resp: 1626
 Ion Ratio Lower Upper
 62 100
 98 0.0 4.5 6.7#



#39
 1,2-Dichloropropane
 Concen: 6.932 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. -0.44 min
 Lab File: VL033789.D
 Acq: 24 May 2019 1:24

Tgt Ion: 63 Resp: 563561
 Ion Ratio Lower Upper
 63 100
 41 0.0 61.5 92.3#
 62 16.9 56.2 84.4#

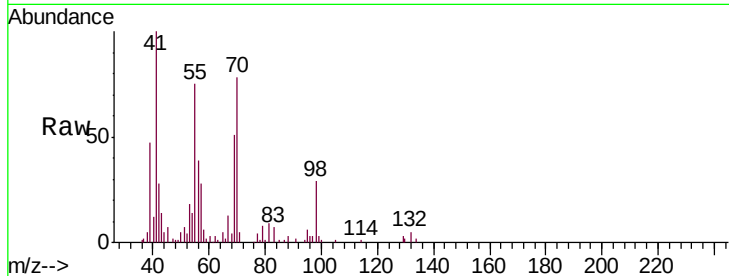




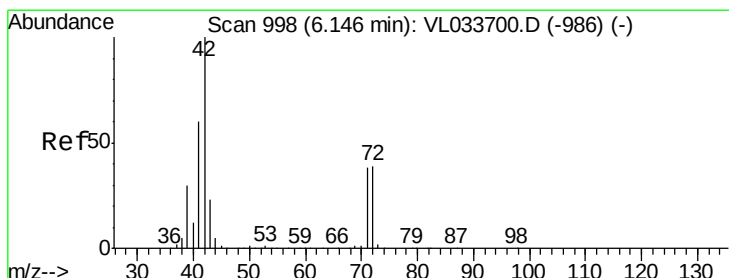
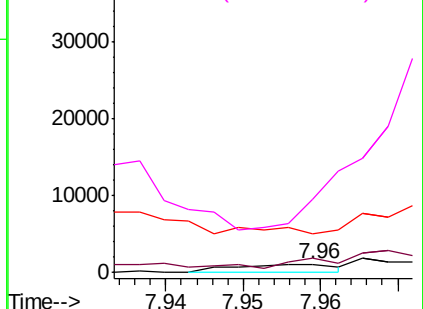
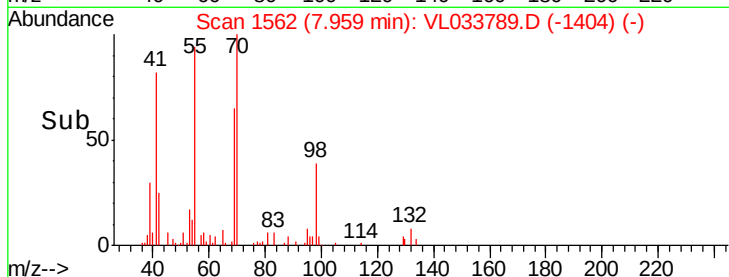
#40
1,4-Dioxane
Concen: 0.028 ppbv
RT: 7.96 min Scan# 1562
Delta R.T. 0.01 min
Lab File: VL033789.D
Acq: 24 May 2019 1:24

Instrument :
MSVOA_L
ClientSampleId :
BPS1-DUP-01

Tgt Ion: 88 Resp: 959
Ion Ratio Lower Upper
88 100
58 0.0 101.8 152.6#
43 0.0 0.0 0.0
57 3100.3 0.0 0.0#

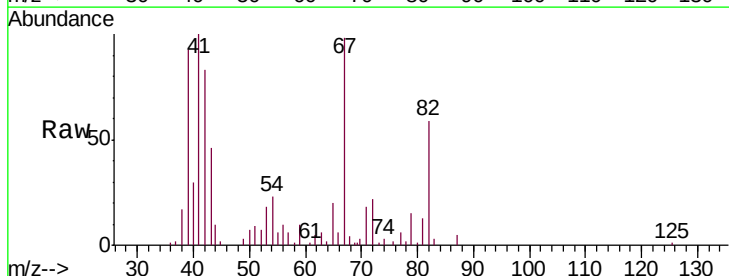


Abundance Ion 88.10 (87.80 to 88.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 57.10 (56.80 to 57.80): VL0

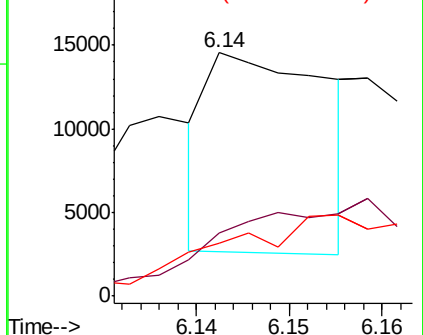
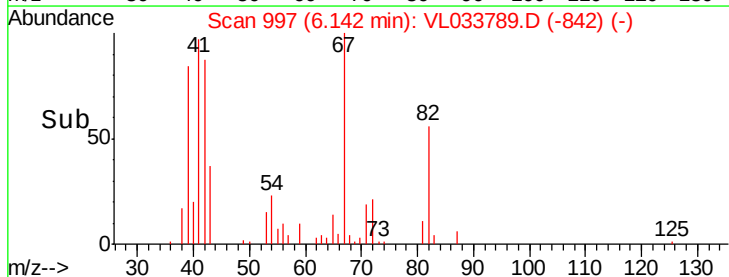


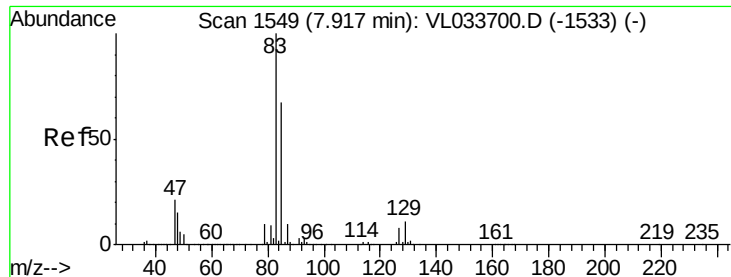
#41
Tetrahydrofuran
Concen: 0.127 ppbv
RT: 6.14 min Scan# 997
Delta R.T. -0.00 min
Lab File: VL033789.D
Acq: 24 May 2019 1:24

Tgt Ion: 42 Resp: 10613
Ion Ratio Lower Upper
42 100
72 0.0 32.0 48.0#
71 0.0 30.4 45.6#



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0





#42

Bromodichloromethane

Concen: 0.023 ppbv

RT: 7.92 min Scan# 1549

Delta R.T. 0.00 min

Lab File: VL033789.D

Acq: 24 May 2019 1:24

Instrument :

MSVOA_L

ClientSampleId :

BPS1-DUP-01

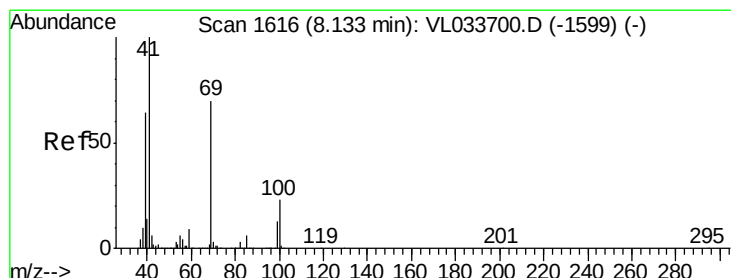
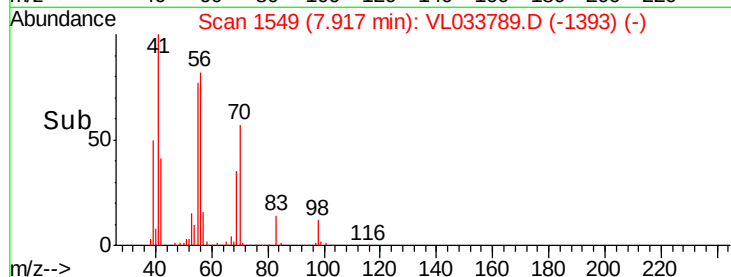
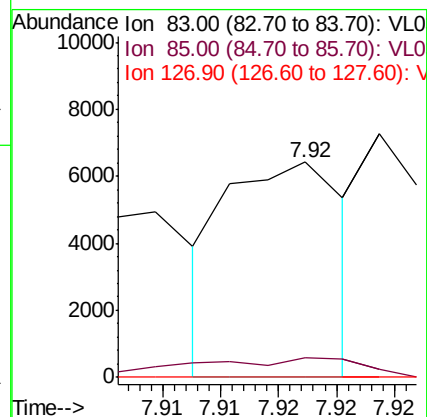
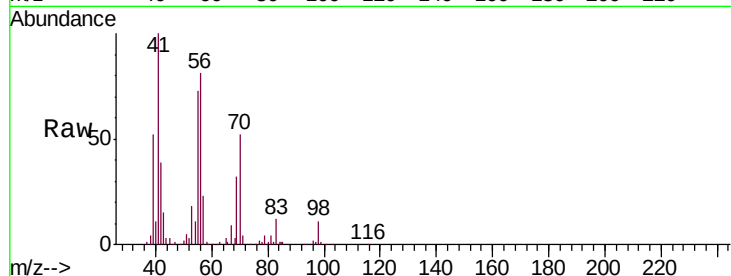
Tgt Ion: 83 Resp: 4524

Ion Ratio Lower Upper

83 100

85 6.6 53.3 79.9#

127 0.0 6.5 9.7#



#43

Methyl Methacrylate

Concen: 0.158 ppbv

RT: 8.13 min Scan# 1615

Delta R.T. -0.00 min

Lab File: VL033789.D

Acq: 24 May 2019 1:24

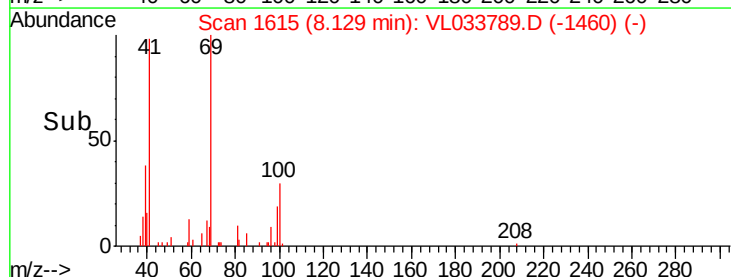
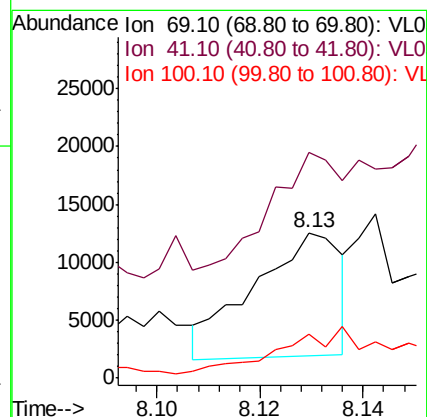
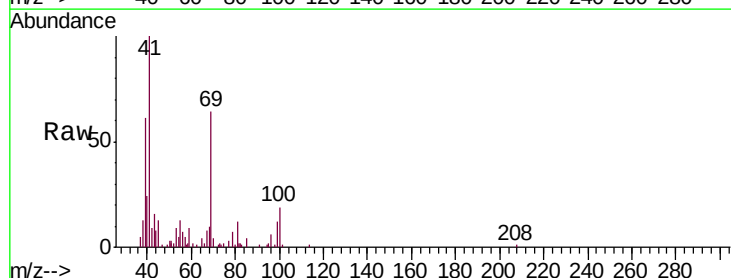
Tgt Ion: 69 Resp: 12672

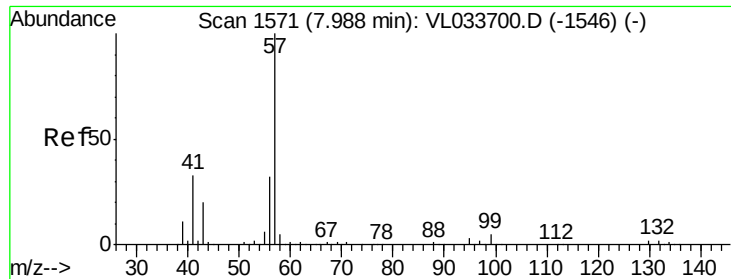
Ion Ratio Lower Upper

69 100

41 0.0 116.3 174.5#

100 0.0 25.3 37.9#

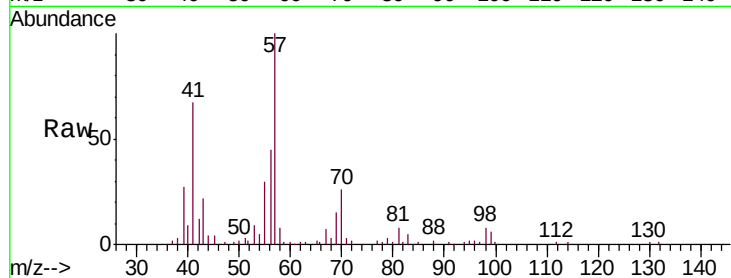




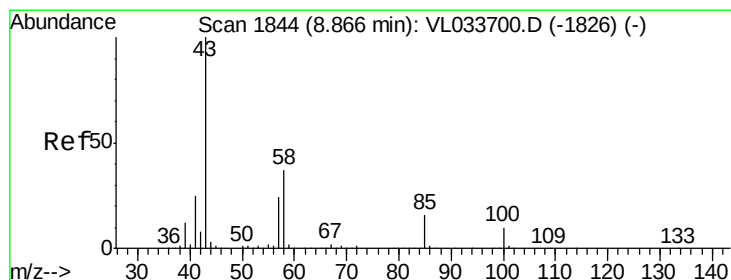
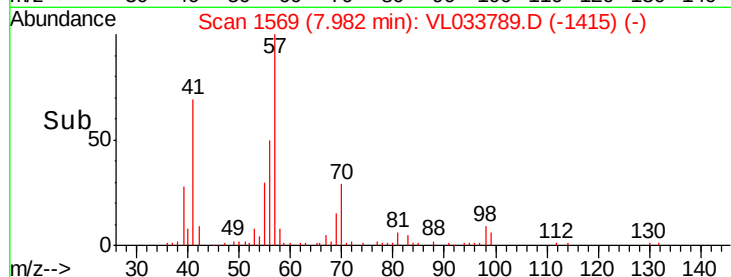
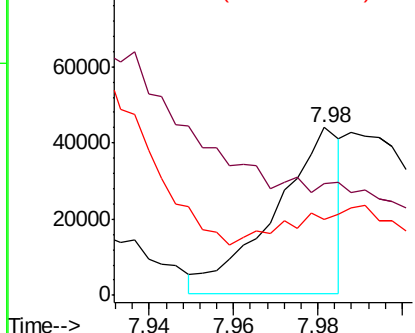
#44
 2,2,4-Trimethylpentane
 Concen: 0.128 ppbv
 RT: 7.98 min Scan# 1569
 Delta R.T. -0.01 min
 Lab File: VL033789.D
 Acq: 24 May 2019 1:24

Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-DUP-01

Tgt Ion: 57 Resp: 47129
 Ion Ratio Lower Upper
 57 100
 41 0.0 25.4 38.0#
 56 0.0 24.7 37.1#

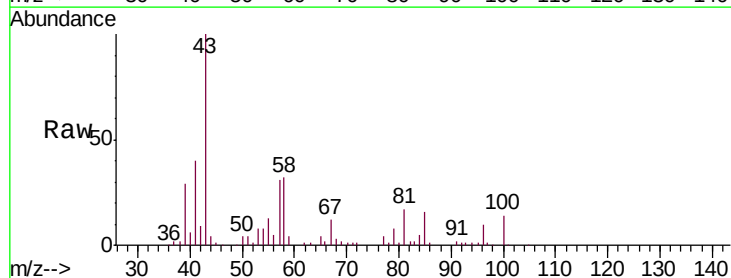


Abundance Ion 57.10 (56.80 to 57.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 56.10 (55.80 to 56.80): VL0

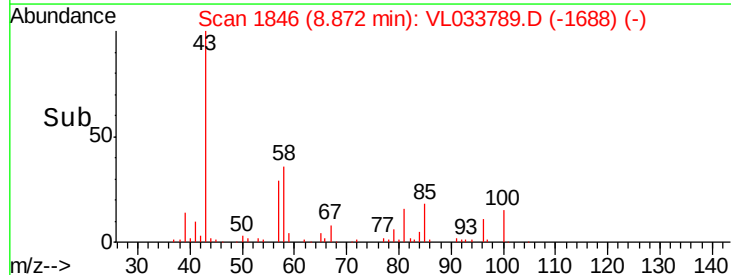
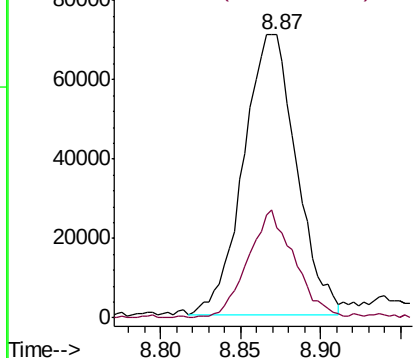


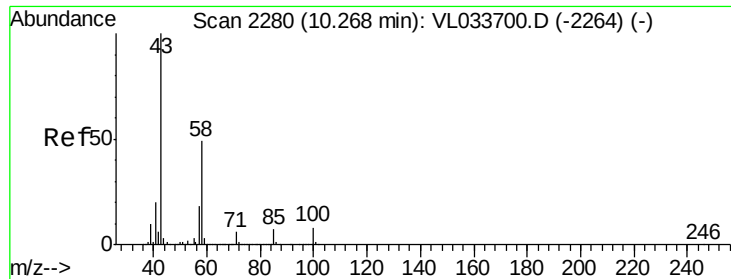
#50
 4-Methyl-2-Pentanone
 Concen: 0.701 ppbv
 RT: 8.87 min Scan# 1846
 Delta R.T. 0.01 min
 Lab File: VL033789.D
 Acq: 24 May 2019 1:24

Tgt Ion: 43 Resp: 160203
 Ion Ratio Lower Upper
 43 100
 58 35.2 28.6 43.0



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 58.10 (57.80 to 58.80): VL0

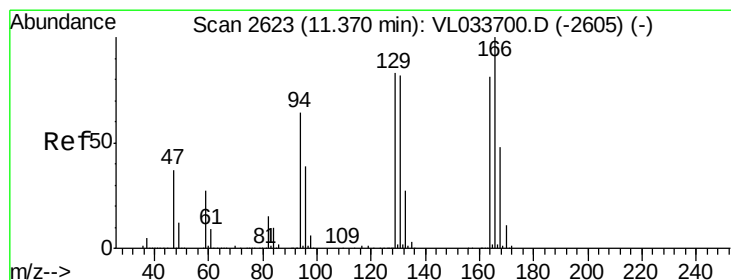
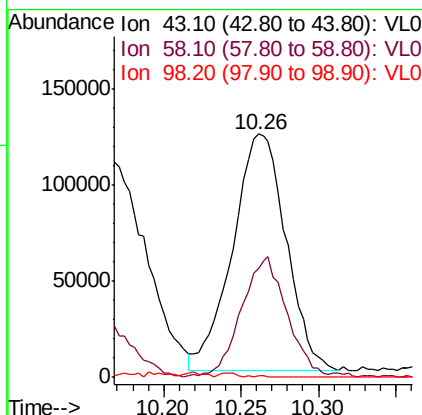
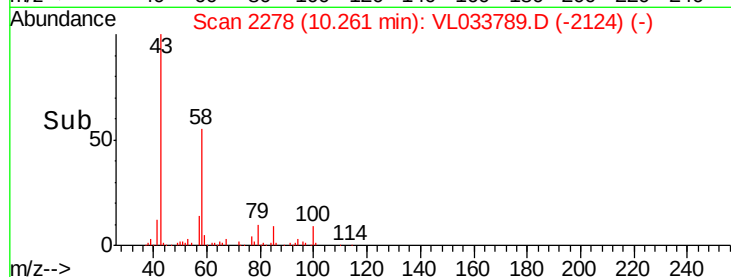
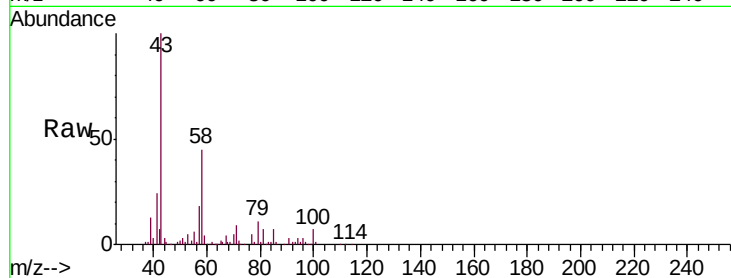




#51
2-Hexanone
Concen: 1.648 ppbv
RT: 10.26 min Scan# 2278
Delta R.T. -0.01 min
Lab File: VL033789.D
Acq: 24 May 2019 1:24

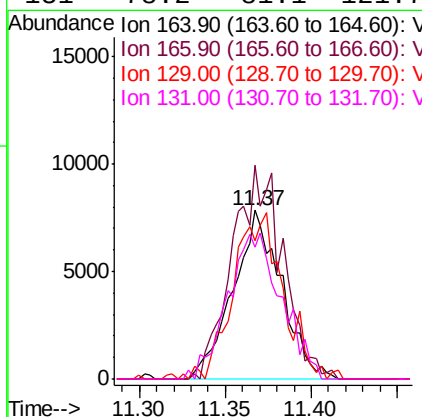
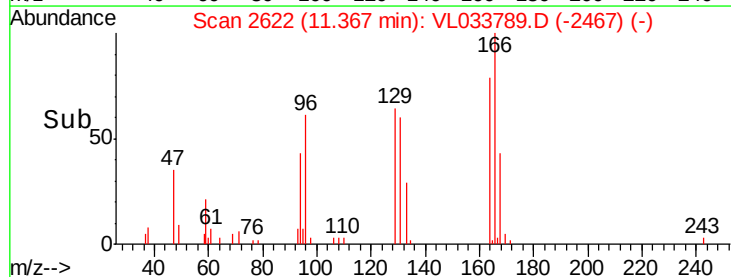
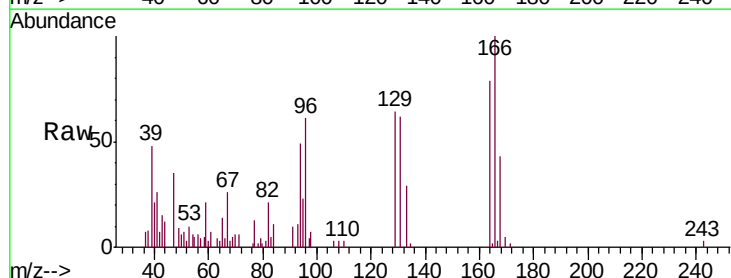
Instrument :
MSVOA_L
ClientSampleId :
BPS1-DUP-01

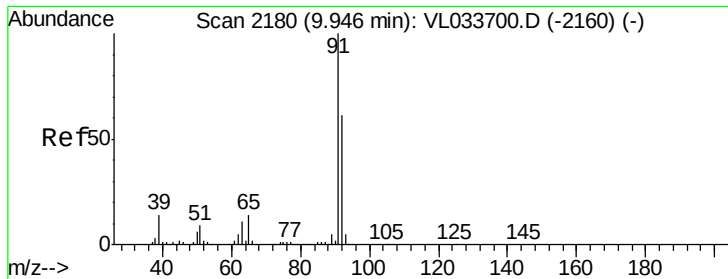
Tgt Ion: 43 Resp: 294051
Ion Ratio Lower Upper
43 100
58 44.5 38.7 58.1
98 2.4 0.2 0.4#



#52
Tetrachloroethene
Concen: 0.200 ppbv
RT: 11.37 min Scan# 2622
Delta R.T. -0.00 min
Lab File: VL033789.D
Acq: 24 May 2019 1:24

Tgt Ion: 164 Resp: 15304
Ion Ratio Lower Upper
164 100
166 126.7 98.9 148.3
129 81.7 81.8 122.6#
131 78.2 81.1 121.7#





#53

Toluene

Concen: 18.233 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033789.D

Acq: 24 May 2019 1:24

Instrument :

MSVOA_L

ClientSampleId :

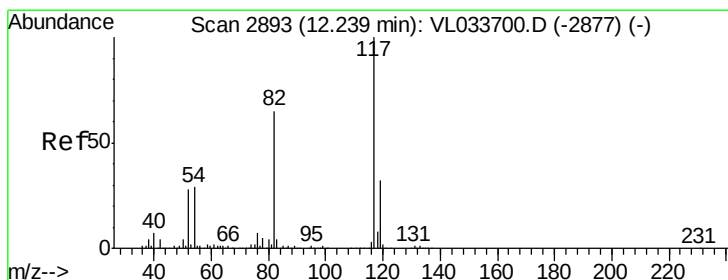
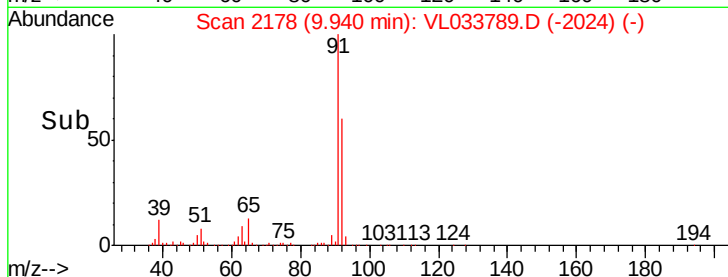
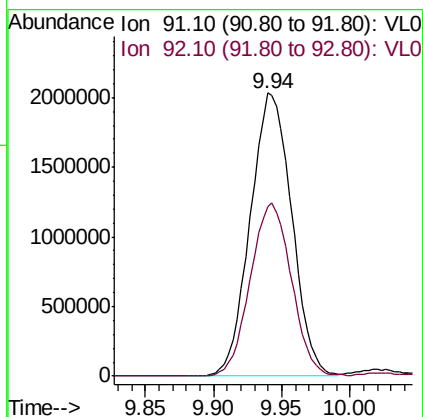
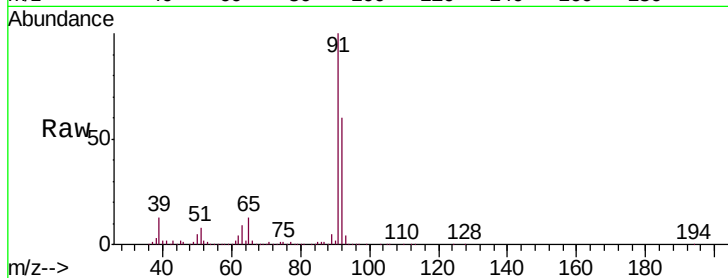
BPS1-DUP-01

Tgt Ion: 91 Resp: 4288574

Ion Ratio Lower Upper

91 100

92 60.7 47.6 71.4



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2892

Delta R.T. -0.00 min

Lab File: VL033789.D

Acq: 24 May 2019 1:24

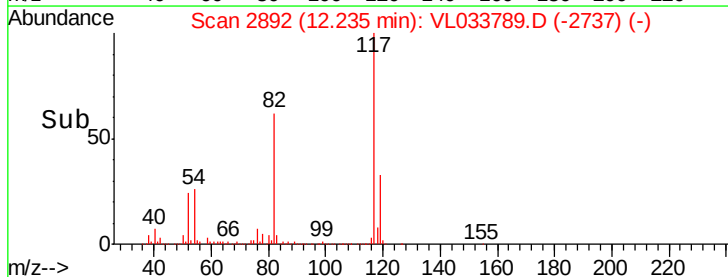
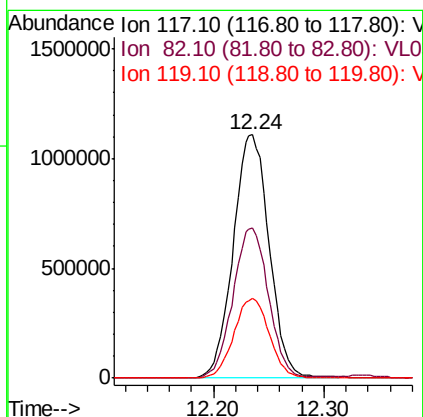
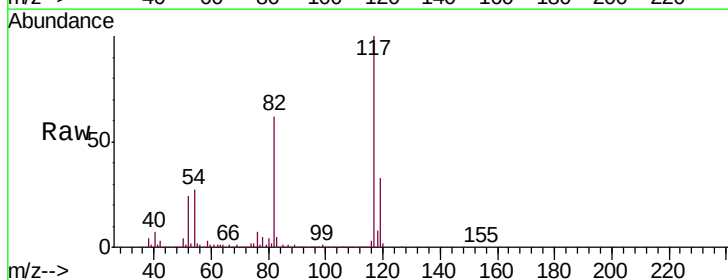
Tgt Ion: 117 Resp: 2499623

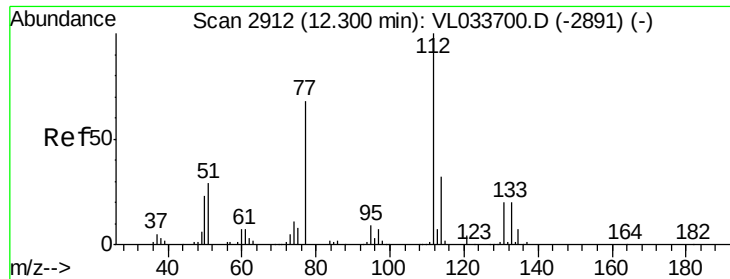
Ion Ratio Lower Upper

117 100

82 61.3 49.4 74.0

119 32.4 24.9 37.3

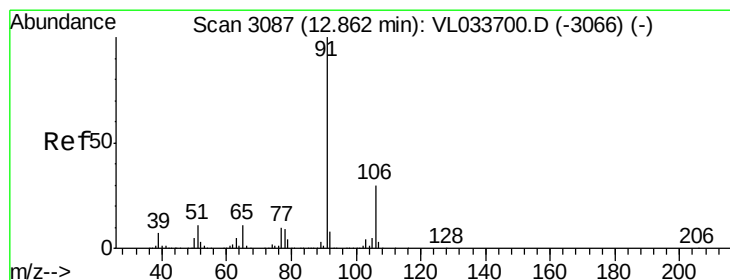
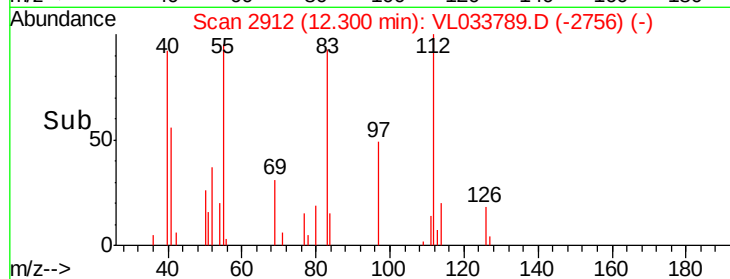
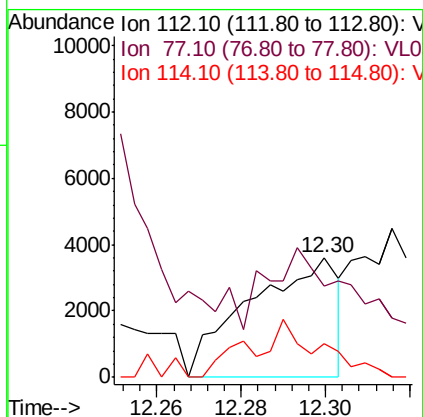
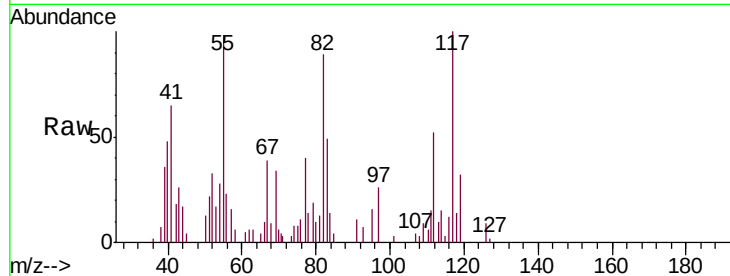




#57
Chlorobenzene
Concen: 0.025 ppbv
RT: 12.30 min Scan# 2912
Delta R.T. 0.00 min
Lab File: VL033789.D
Acq: 24 May 2019 1:24

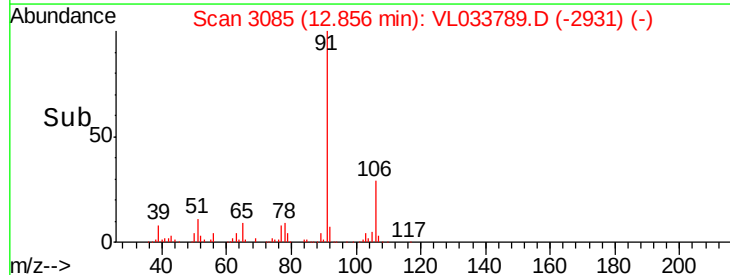
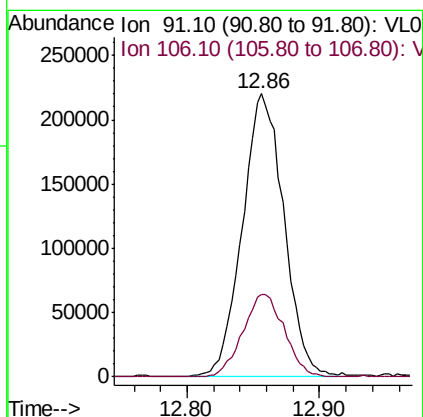
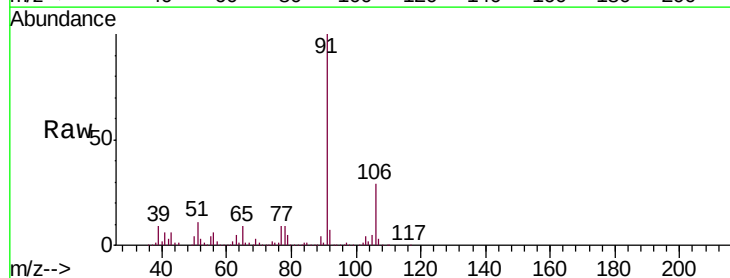
Instrument :
MSVOA_L
ClientSampleId :
BPS1-DUP-01

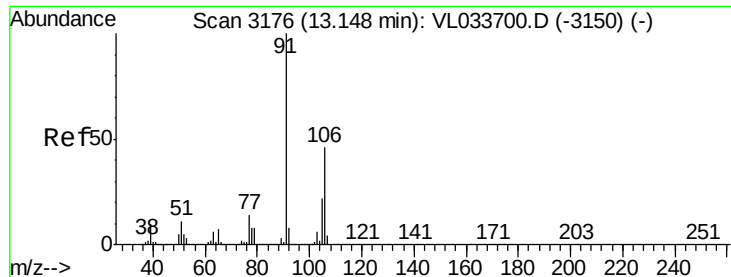
Tgt Ion: 112 Resp: 5231
Ion Ratio Lower Upper
112 100
77 4.2 55.4 83.0#
114 28.6 29.3 35.8#



#58
Ethyl Benzene
Concen: 1.443 ppbv
RT: 12.86 min Scan# 3085
Delta R.T. -0.01 min
Lab File: VL033789.D
Acq: 24 May 2019 1:24

Tgt Ion: 91 Resp: 477529
Ion Ratio Lower Upper
91 100
106 29.1 23.9 35.9

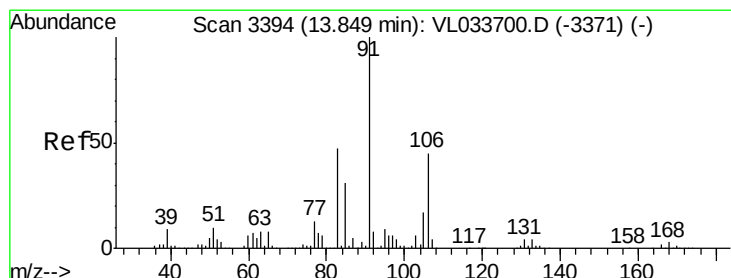
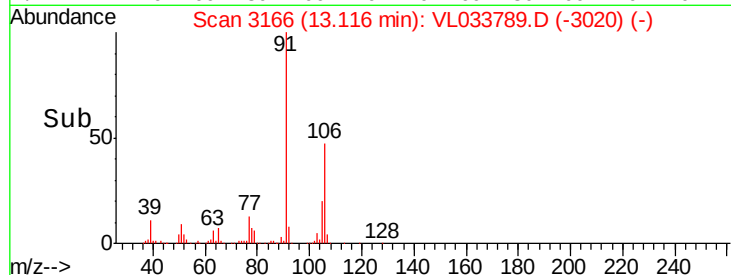
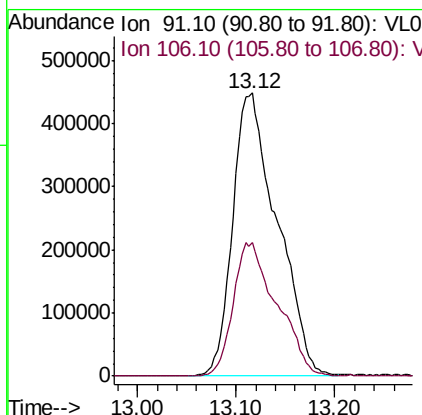
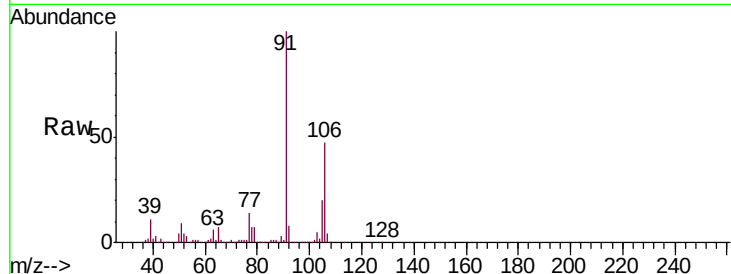




#59
m/p-Xylene
Concen: 4.819 ppbv
RT: 13.12 min Scan# 3166
Delta R.T. -0.03 min
Lab File: VL033789.D
Acq: 24 May 2019 1:24

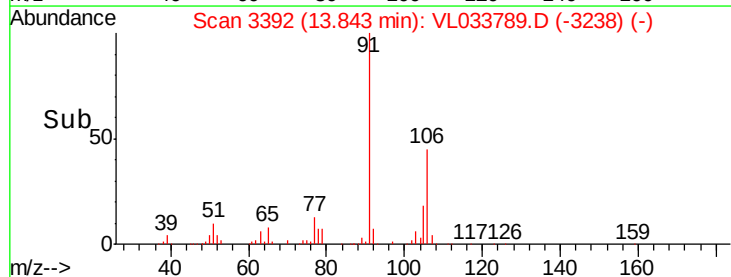
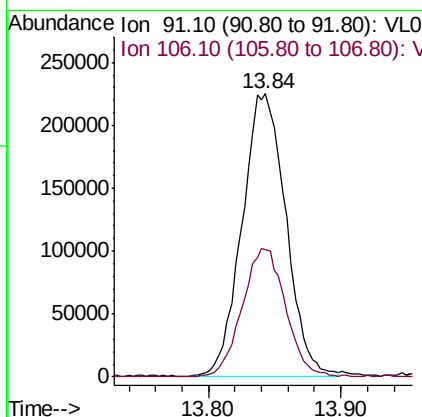
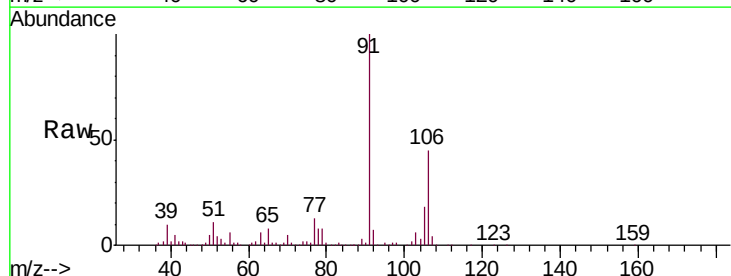
Instrument :
MSVOA_L
ClientSampleId :
BPS1-DUP-01

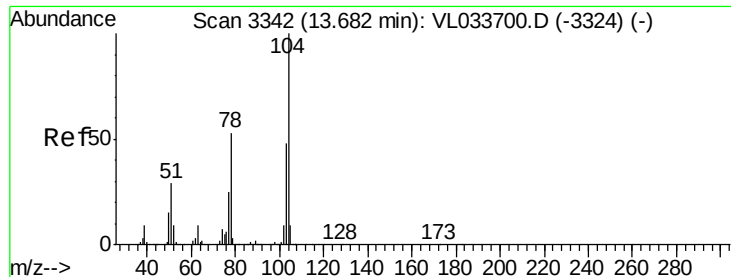
Tgt Ion: 91 Resp: 1394389
Ion Ratio Lower Upper
91 100
106 47.0 35.8 53.6



#60
o-Xylene
Concen: 1.766 ppbv
RT: 13.84 min Scan# 3392
Delta R.T. -0.01 min
Lab File: VL033789.D
Acq: 24 May 2019 1:24

Tgt Ion: 91 Resp: 515083
Ion Ratio Lower Upper
91 100
106 45.1 21.6 64.8





#61

Styrene

Concen: 0.228 ppbv

RT: 13.68 min Scan# 3340

Delta R.T. -0.01 min

Lab File: VL033789.D

Acq: 24 May 2019 1:24

Instrument :

MSVOA_L

ClientSampleId :

BPS1-DUP-01

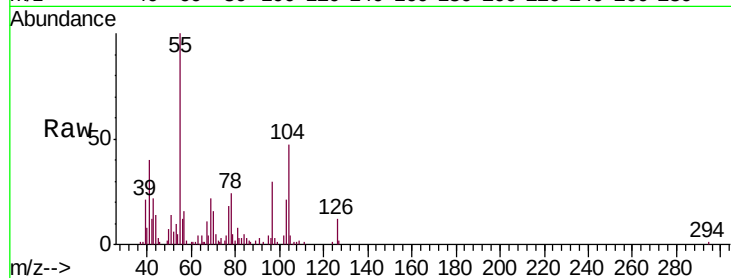
Tgt Ion:104 Resp: 44864

Ion Ratio Lower Upper

104 100

78 54.2 42.6 64.0

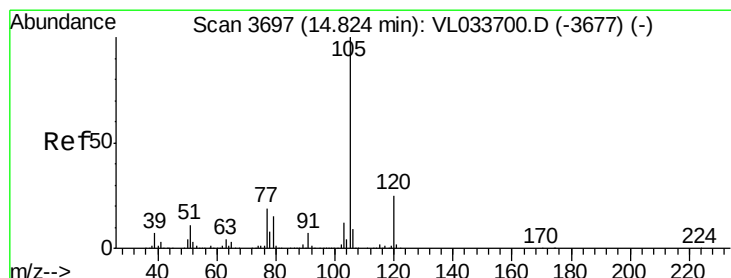
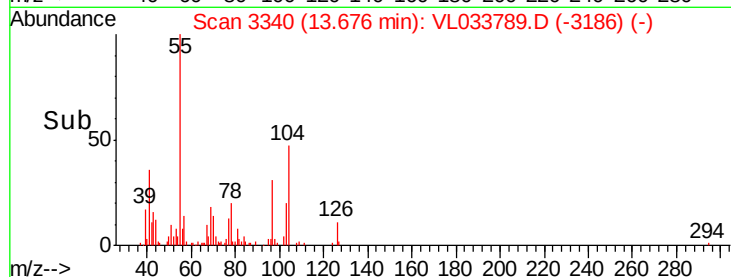
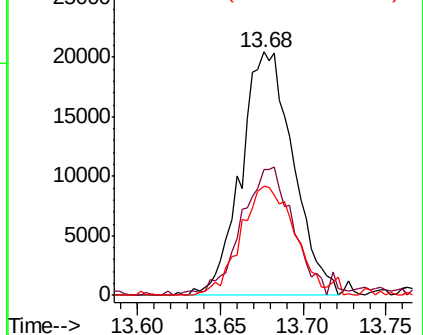
103 48.0 37.8 56.6



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: 0.067 ppbv

RT: 14.82 min Scan# 3697

Delta R.T. 0.00 min

Lab File: VL033789.D

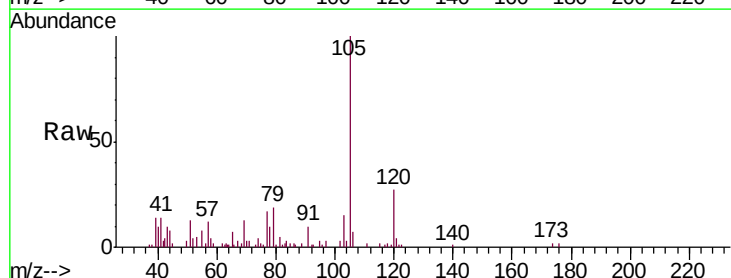
Acq: 24 May 2019 1:24

Tgt Ion:105 Resp: 26184

Ion Ratio Lower Upper

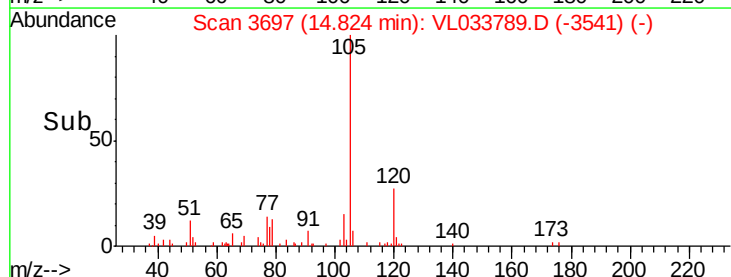
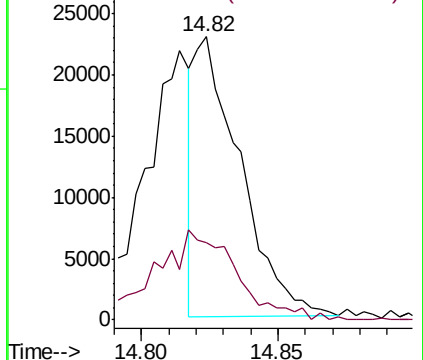
105 100

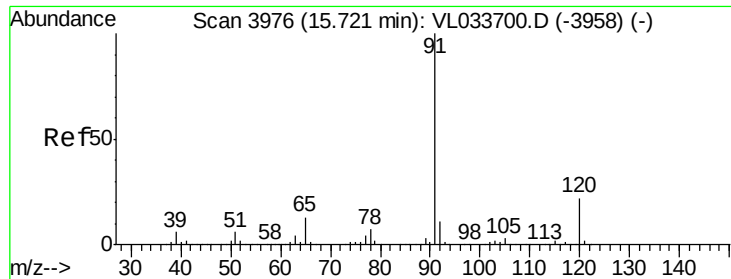
120 0.0 20.1 30.1#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#64

n-propylbenzene

Concen: 0.195 ppbv

RT: 15.72 min Scan# 3975

Delta R.T. -0.00 min

Lab File: VL033789.D

Acq: 24 May 2019 1:24

Instrument :

MSVOA_L

ClientSampleId :

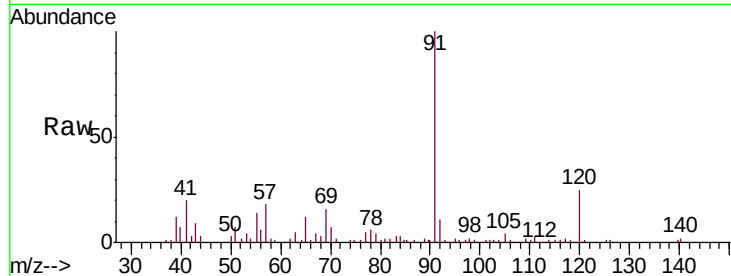
BPS1-DUP-01

Tgt Ion:120 Resp: 19843

Ion Ratio Lower Upper

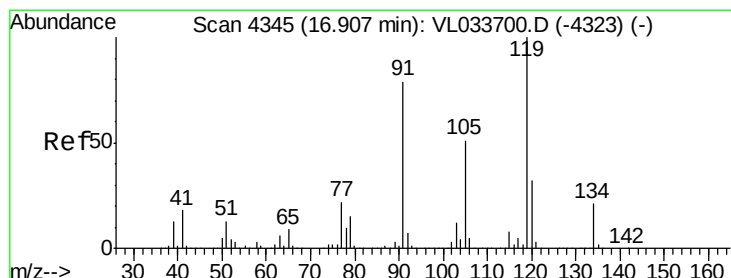
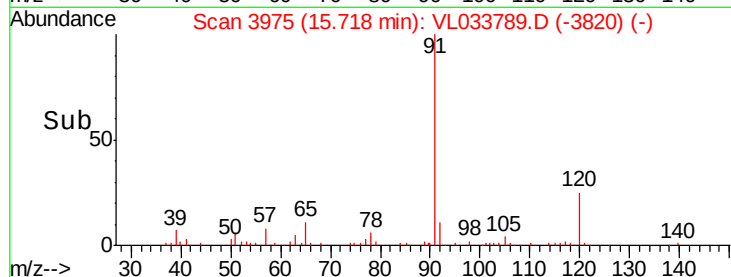
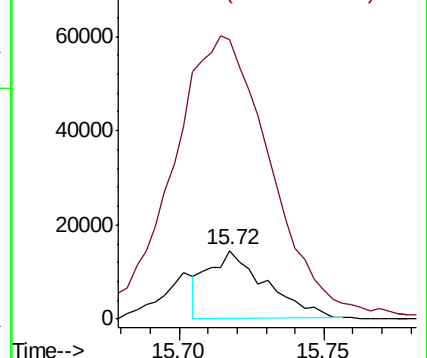
120 100

91 735.9 379.1 568.7#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.063 ppbv

RT: 16.92 min Scan# 4350

Delta R.T. 0.02 min

Lab File: VL033789.D

Acq: 24 May 2019 1:24

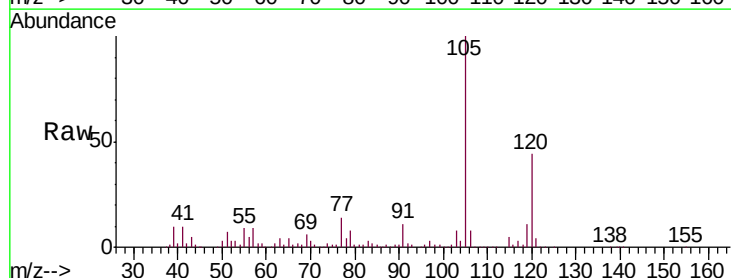
Tgt Ion:119 Resp: 22469

Ion Ratio Lower Upper

119 100

91 280.0 65.3 97.9#

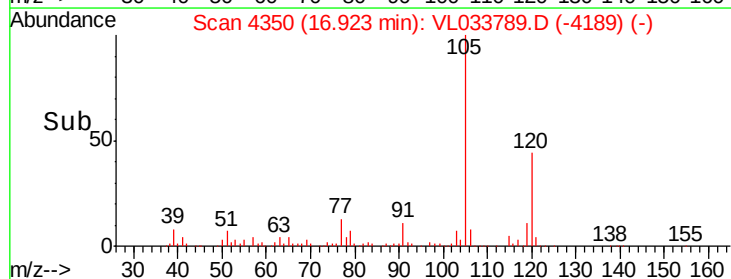
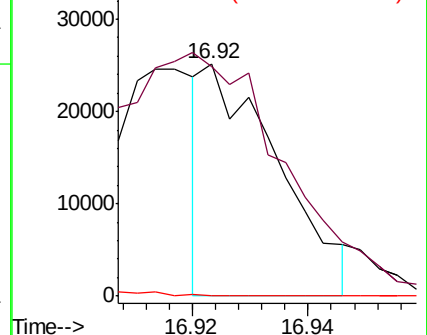
134 0.0 15.7 23.5#

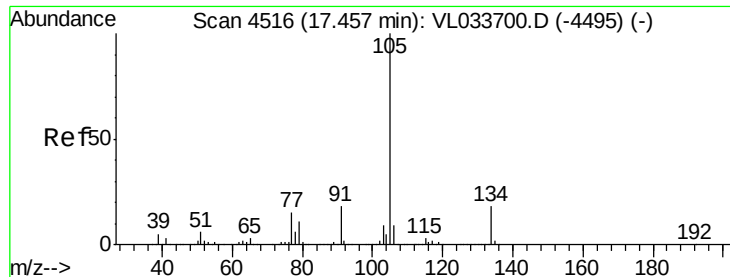


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V





#67

sec-Butylbenzene

Concen: 0.082 ppbv

RT: 17.77 min Scan# 4612

Delta R.T. 0.31 min

Lab File: VL033789.D

Acq: 24 May 2019 1:24

Instrument :

MSVOA_L

ClientSampleId :

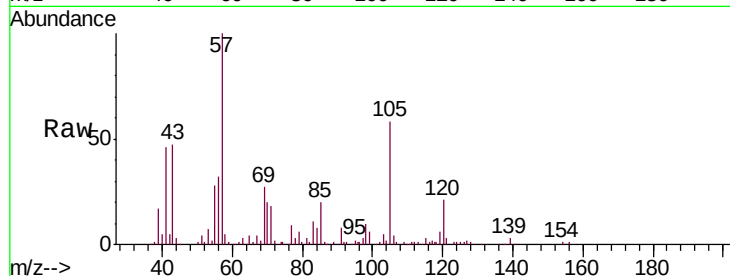
BPS1-DUP-01

Tgt Ion: 105 Resp: 40938

Ion Ratio Lower Upper

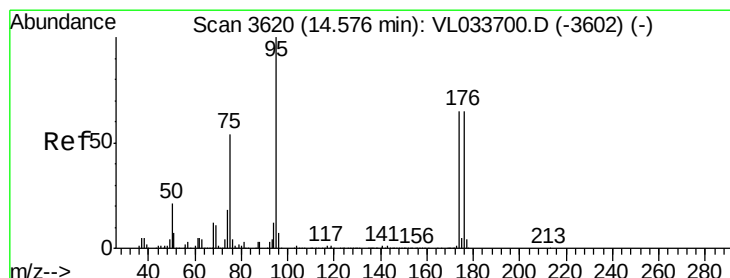
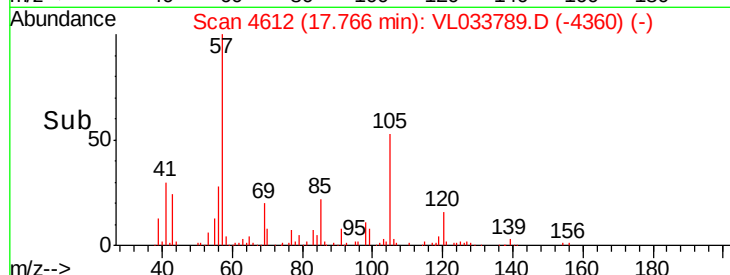
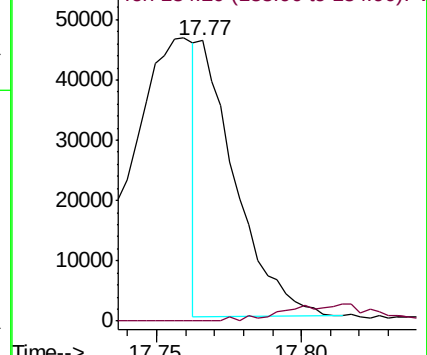
105 100

134 14.9 14.6 22.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.600 ppbv

RT: 14.57 min Scan# 3618

Delta R.T. -0.01 min

Lab File: VL033789.D

Acq: 24 May 2019 1:24

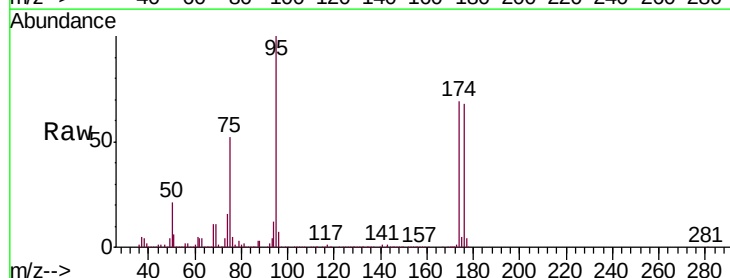
Tgt Ion: 95 Resp: 1945301

Ion Ratio Lower Upper

95 100

174 70.1 53.9 80.9

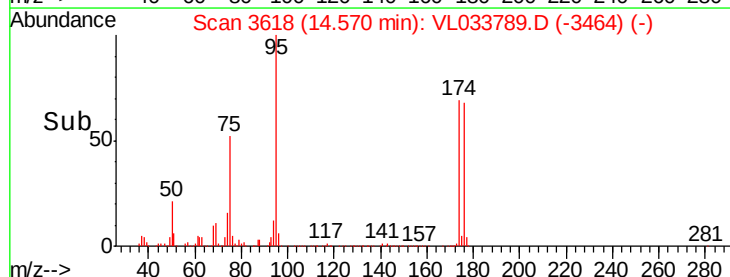
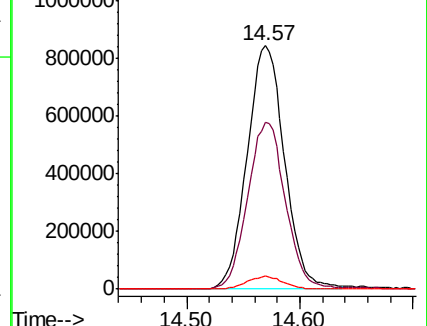
175 5.1 3.8 5.8

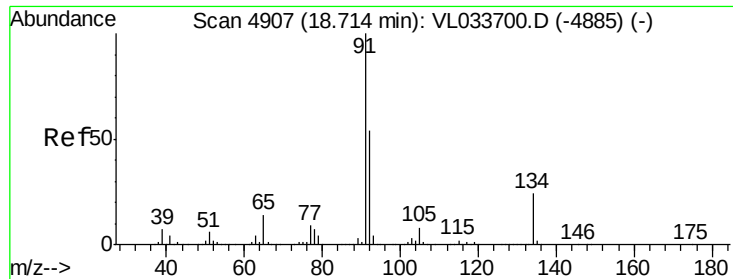


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

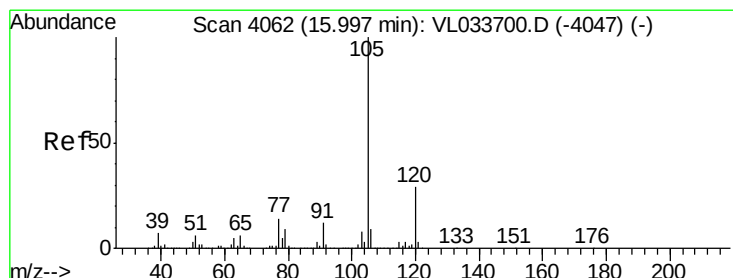
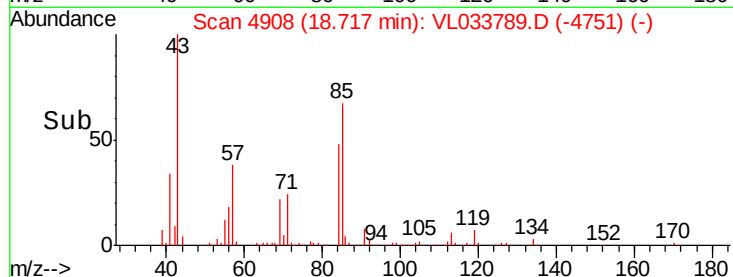
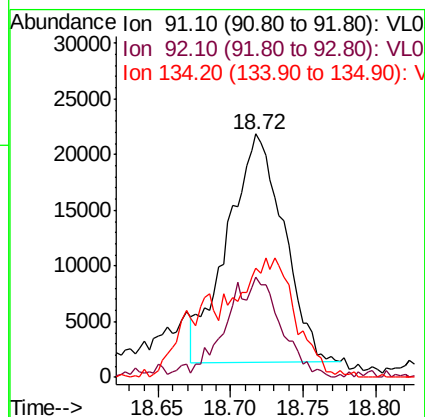
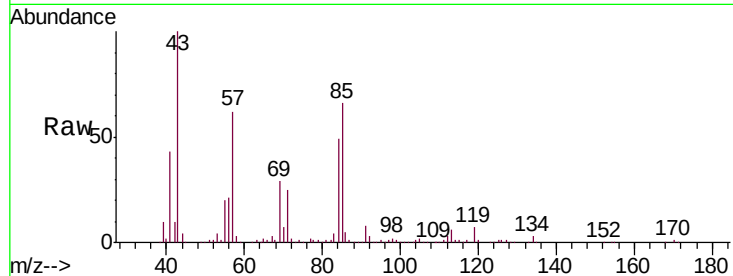




#70
n-Butylbenzene
Concen: 0.124 ppbv
RT: 18.72 min Scan# 4908
Delta R.T. 0.00 min
Lab File: VL033789.D
Acq: 24 May 2019 1:24

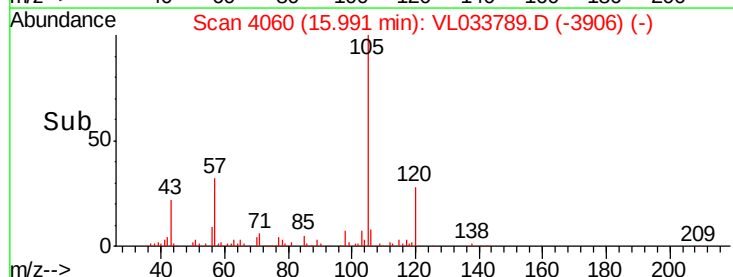
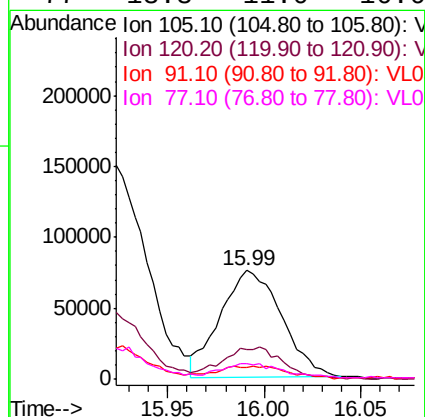
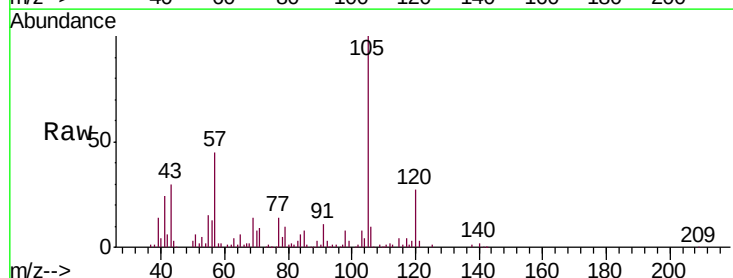
Instrument :
MSVOA_L
ClientSampleId :
BPS1-DUP-01

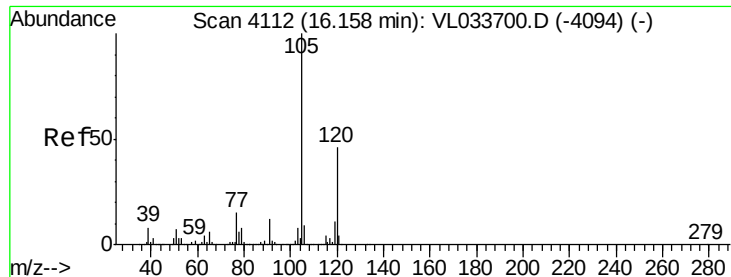
Tgt Ion: 91 Resp: 55097
Ion Ratio Lower Upper
91 100
92 46.0 42.6 63.8
134 78.0 18.1 27.1#



#72
4-Ethyltoluene
Concen: 0.502 ppbv
RT: 15.99 min Scan# 4060
Delta R.T. -0.01 min
Lab File: VL033789.D
Acq: 24 May 2019 1:24

Tgt Ion: 105 Resp: 167289
Ion Ratio Lower Upper
105 100
120 29.3 23.1 34.7
91 12.4 10.4 15.6
77 13.3 11.0 16.6





#73

1,3,5-Trimethylbenzene

Concen: 0.399 ppbv

RT: 16.15 min Scan# 4110

Delta R.T. -0.01 min

Lab File: VL033789.D

Acq: 24 May 2019 1:24

Instrument :

MSVOA_L

ClientSampleId :

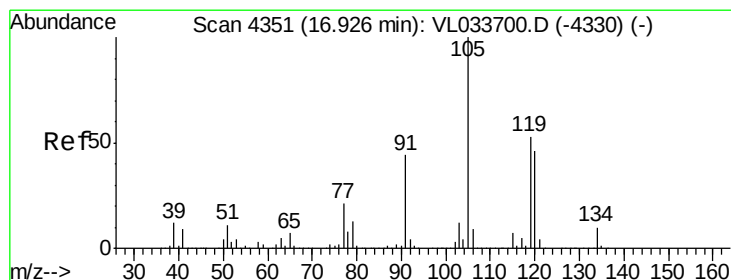
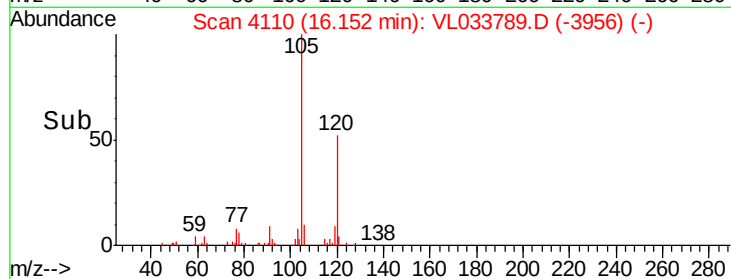
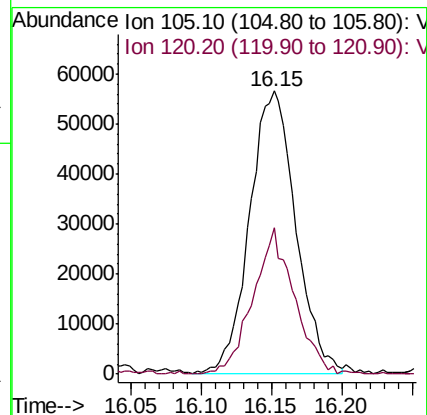
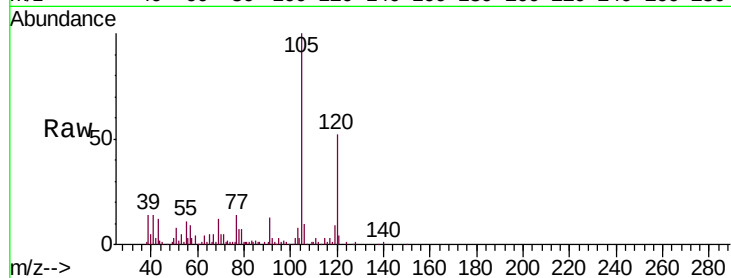
BPS1-DUP-01

Tgt Ion:105 Resp: 129873

Ion Ratio Lower Upper

105 100

120 55.6 37.0 55.4#



#74

1,2,4-Trimethylbenzene

Concen: 1.488 ppbv

RT: 16.92 min Scan# 4348

Delta R.T. -0.01 min

Lab File: VL033789.D

Acq: 24 May 2019 1:24

Tgt Ion:105 Resp: 527099

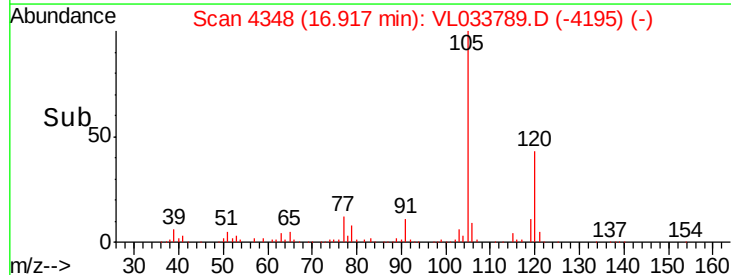
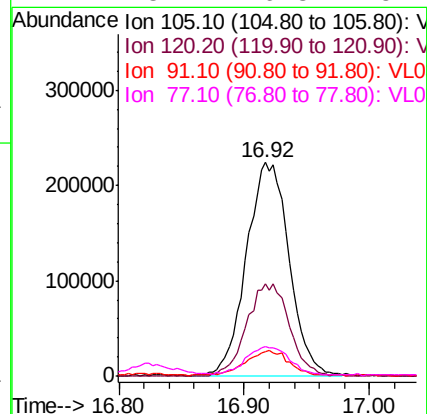
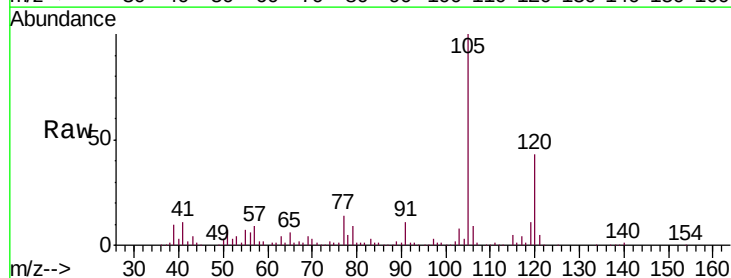
Ion Ratio Lower Upper

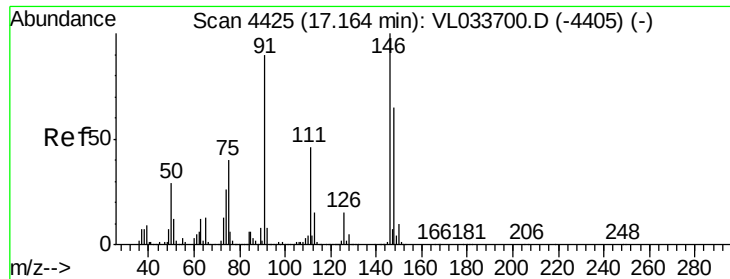
105 100

120 43.1 36.8 55.2

91 10.9 35.4 53.0#

77 13.4 16.8 25.2#

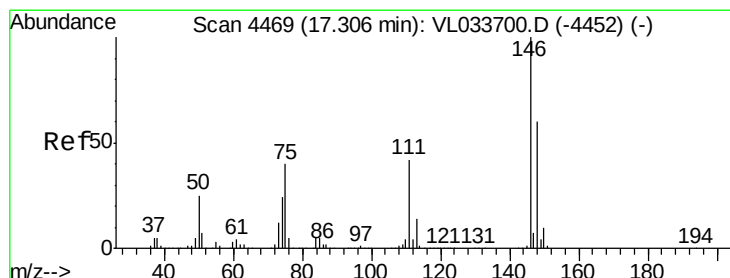
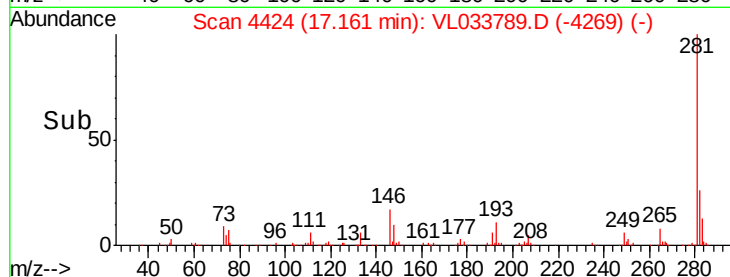
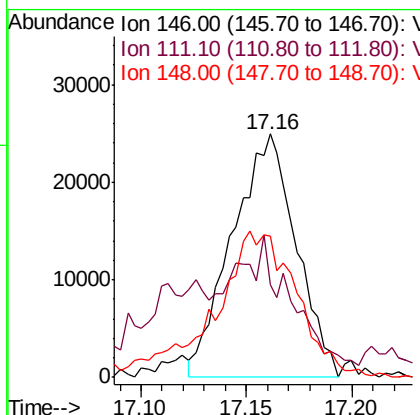
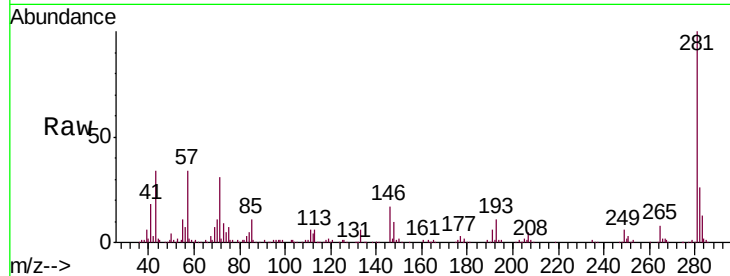




#75
 1,3-Dichlorobenzene
 Concen: 0.242 ppbv
 RT: 17.16 min Scan# 4424
 Delta R.T. -0.00 min
 Lab File: VL033789.D
 Acq: 24 May 2019 1:24

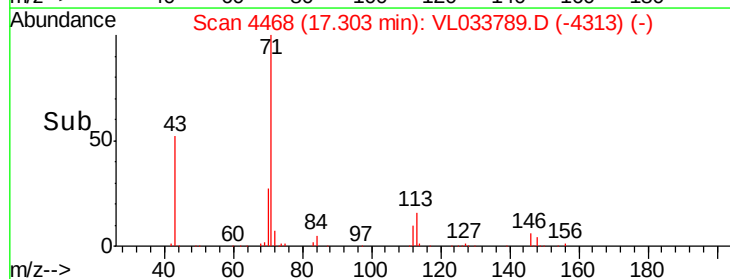
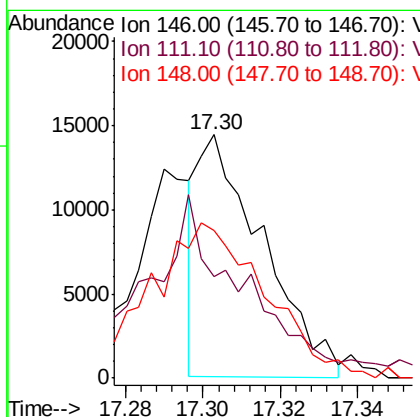
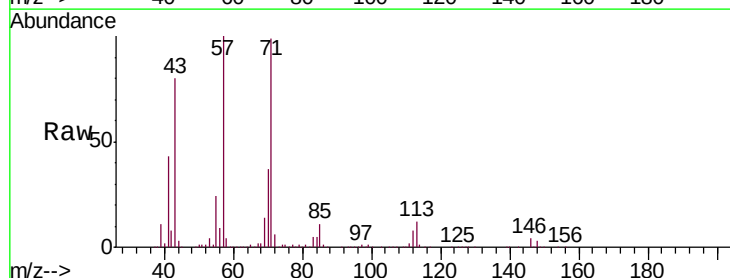
Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-DUP-01

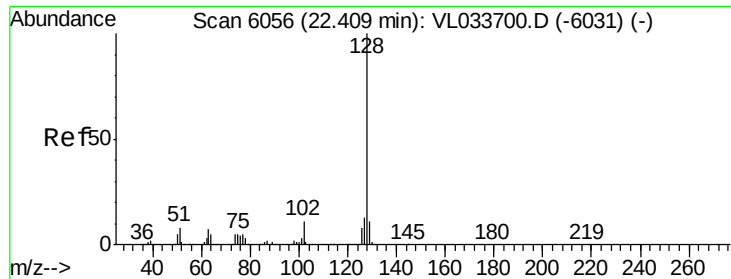
Tgt Ion	Ratio	Lower	Upper
146	100		
111	91.0	22.9	68.8#
148	79.7	32.0	96.2



#76
 1,4-Dichlorobenzene
 Concen: 0.081 ppbv
 RT: 17.30 min Scan# 4468
 Delta R.T. -0.00 min
 Lab File: VL033789.D
 Acq: 24 May 2019 1:24

Tgt Ion	Ratio	Lower	Upper
146	100		
111	99.7	21.9	65.8#
148	118.1	32.1	96.3#





#79

Naphthalene

Concen: 0.418 ppbv

RT: 22.41 min Scan# 6055

Delta R.T. -0.00 min

Lab File: VL033789.D

Acq: 24 May 2019 1:24

Instrument :

MSVOA_L

ClientSampleId :

BPS1-DUP-01

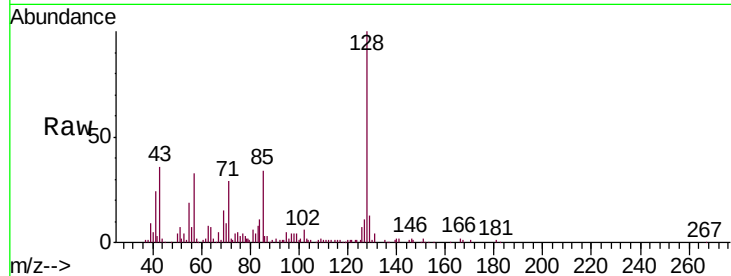
Tgt Ion:128 Resp: 137444

Ion Ratio Lower Upper

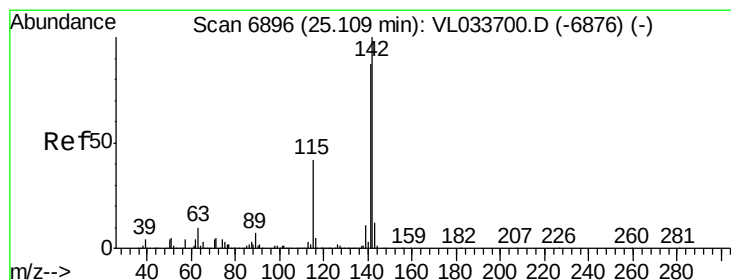
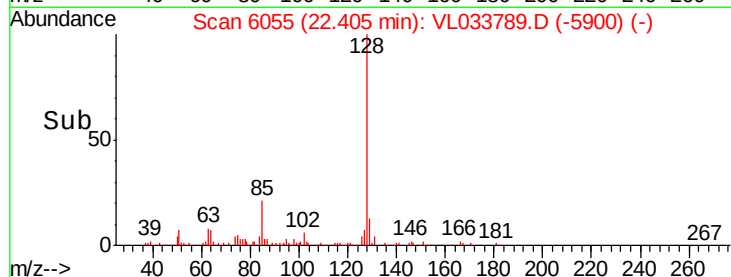
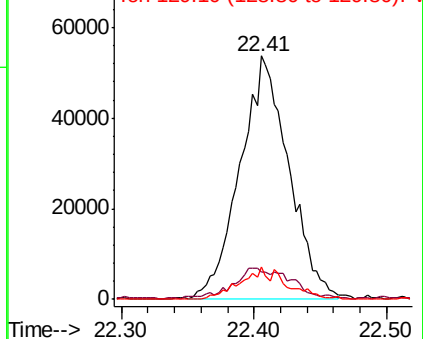
128 100

127 10.6 10.6 16.0#

129 13.2 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: 0.089 ppbv

RT: 25.11 min Scan# 6895

Delta R.T. -0.00 min

Lab File: VL033789.D

Acq: 24 May 2019 1:24

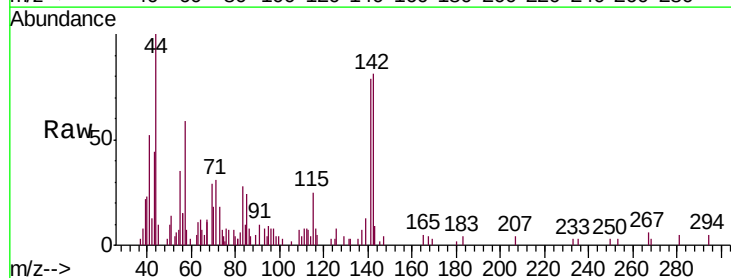
Tgt Ion:142 Resp: 11177

Ion Ratio Lower Upper

142 100

141 95.1 67.2 100.8

115 51.8 34.1 51.1#



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

