

Data File : VL032731.D
Acq On : 8 Nov 2018 00:18
Operator : SY/AP
Sample : J5823-02
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
DUP-1

Quant Time: Nov 08 10:57:47 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101818AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Oct 25 05:15:43 2018
QLast Update : Thu Oct 25 05:15:43 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1406963	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3482509	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3612720	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.59	95	2657861	9.88	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.80%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.08	85	36471	0.254	ppbv #	82
3) Chlorodifluoromethane	3.02	51	23523	0.214	ppbv	100
4) Chloromethane	3.17	50	33878	0.551	ppbv	98
9) Propene	3.04	41	110378	2.438	ppbv	86
10) Heptane	8.25	43	154159	0.883	ppbv	99
11) Trichlorofluoromethane	4.02	101	42677	0.228	ppbv #	79
12) 1,1,2-Trichlorotrifluoroet	4.55	101	7419	0.048	ppbv #	17
13) Ethanol	3.69	45	14849779	1147.413	ppbv	100
15) Acetone	3.90	43	1943367	14.958	ppbv	94
16) 1,3-Butadiene	3.35	39	129858	2.717	ppbv #	16
17) tert-Butyl alcohol	4.41	59	352772	9.232	ppbv #	100
19) Isopropyl Alcohol	4.07	45	2466285	26.655	ppbv #	96
20) Methylene Chloride	4.42	84	43704	0.663	ppbv	92
21) Allyl Chloride	4.44	41	61118	0.573	ppbv #	12
23) Vinyl Acetate	5.15	43	292262	1.269	ppbv #	43
25) Ethyl Acetate	5.79	43	279499	0.935	ppbv #	91
26) Hexane	5.79	57	263303	1.861	ppbv #	55
28) Methyl tert-Butyl Ether	5.12	73	7961	0.039	ppbv #	53
29) Chloroform	5.86	83	11224	0.050	ppbv	94
30) Cyclohexane	7.26	84	44831	0.400	ppbv	84
34) 2-Butanone	5.34	43	277601	1.487	ppbv	99
35) Carbon Tetrachloride	7.14	117	16080	0.065	ppbv	98
36) Benzene	7.01	78	918393	3.248	ppbv	99
39) 1,2-Dichloropropane	7.30	63	858873	7.865	ppbv #	27
41) Tetrahydrofuran	6.17	42	27856	0.268	ppbv	97
44) 2,2,4-Trimethylpentane	8.00	57	1571083	3.254	ppbv	95
50) 4-Methyl-2-Pentanone	8.89	43	29076	0.105	ppbv #	38
51) 2-Hexanone	10.28	43	10165	0.049	ppbv #	28
52) Tetrachloroethene	11.39	164	7952	0.081	ppbv	90
53) Toluene	9.96	91	6129082	18.907	ppbv	100
56) 1,1,1,2-Tetrachloroethane	11.85	131	127438	0.807	ppbv #	1
58) Ethyl Benzene	12.88	91	897008	2.137	ppbv	94
59) m/p-Xylene	13.13	91	2850898	7.628	ppbv	98
60) o-Xylene	13.86	91	1087953	3.018	ppbv	98
61) Styrene	13.70	104	70892	0.293	ppbv	98
62) Isopropylbenzene	14.84	105	23608	0.046	ppbv #	67
64) n-propylbenzene	15.73	120	19455	0.153	ppbv #	1
65) tert-Butylbenzene	16.94	119	32239	0.074	ppbv #	1
66) Benzyl Chloride	17.16	91	7083	0.032	ppbv #	1
72) 4-Ethyltoluene	16.01	105	274756	0.716	ppbv	98
73) 1,3,5-Trimethylbenzene	16.17	105	214246	0.573	ppbv	100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL110718\
Quantitation Report (Not Reviewed)

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Quant Time: Nov 08 10:57:47 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101818AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 25 05:15:43 2018
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 1,2,4-Trimethylbenzene	16.93	105	857802	2.148	ppbv #	74
75) 1,3-Dichlorobenzene	17.18	146	55460	0.241	ppbv #	23
79) Naphthalene	22.42	128	13171	0.053	ppbv	96
80) Naphthalene,2-methyl-	25.13	142	2079	0.034	ppbv #	39

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

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Sample : J5823-02

Misc : 400ml/MSVOA L

ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
DUP-1

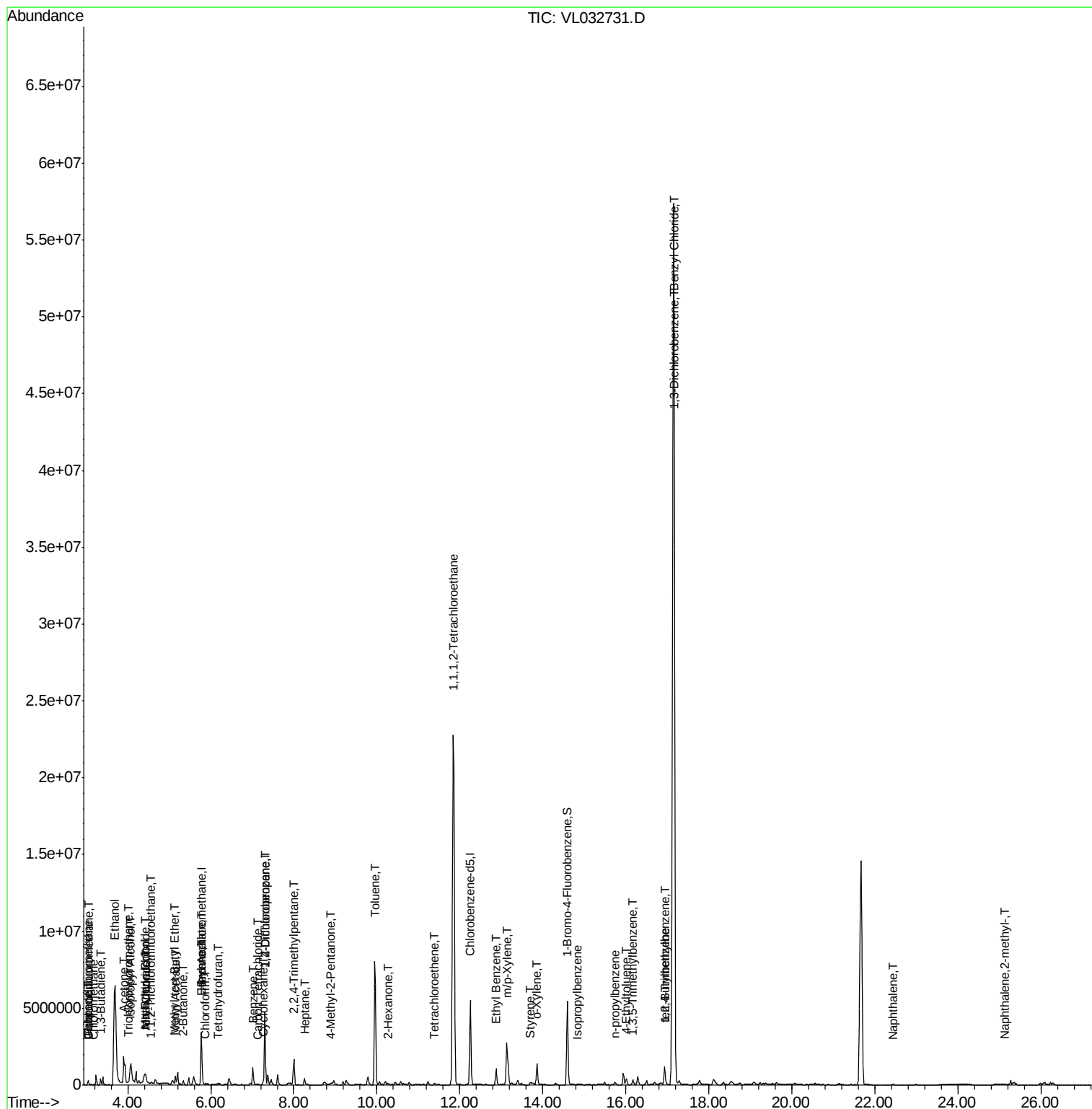
Quant Time: Nov 08 10:57:47 2018

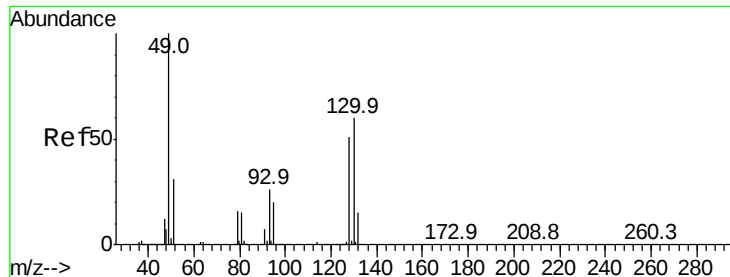
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_L\METHODS\VL101818AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Thu Oct 25 05:15:43 2018

QLast Update : Thu Oct 25 05:15:43 2018

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 881

Delta R.T. -0.01 min

Lab File: VL032731.D

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Instrument :

MSVOA_L

ClientSampleId :

DUP-1

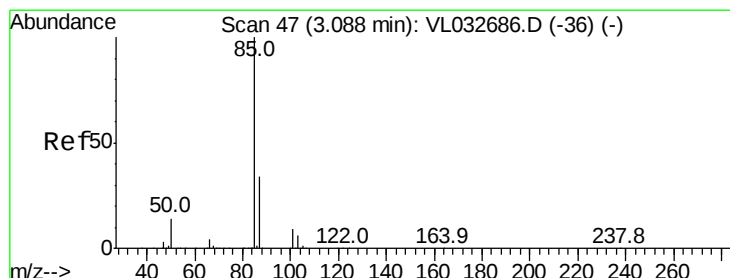
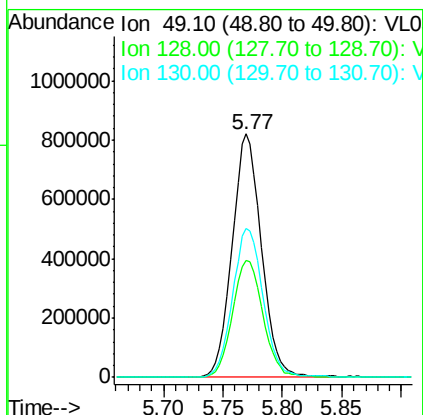
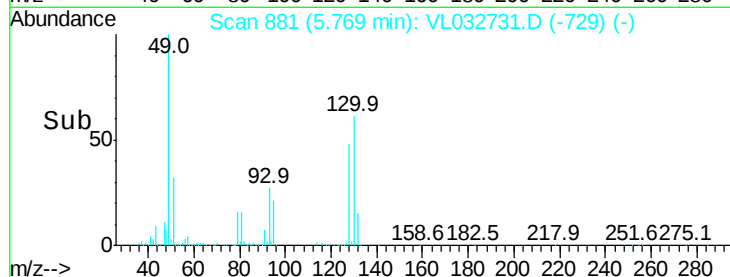
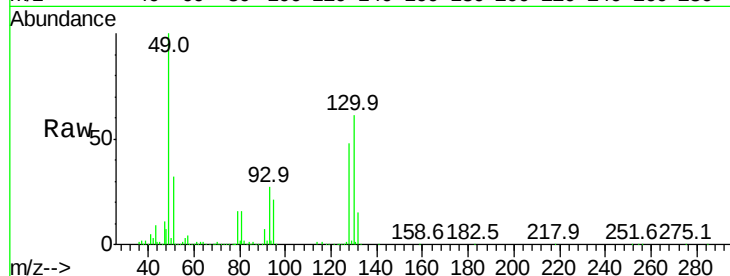
Tgt Ion: 49 Resp: 1406963

Ion Ratio Lower Upper

49 100

128 50.3 22.3 66.8

130 63.6 28.4 85.3



#2

Dichlorodifluoromethane

Concen: 0.254 ppbv

RT: 3.08 min Scan# 44

Delta R.T. -0.01 min

Lab File: VL032731.D

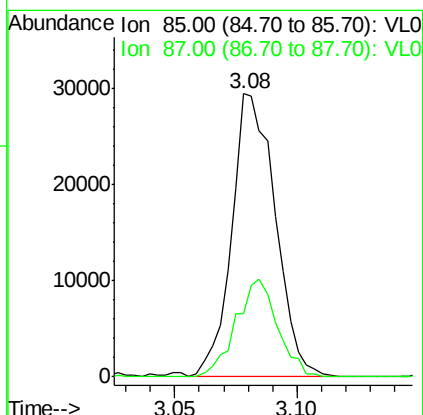
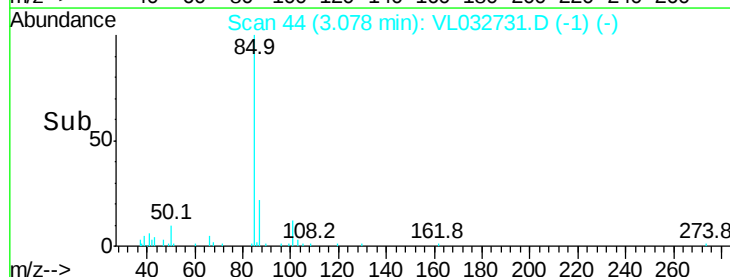
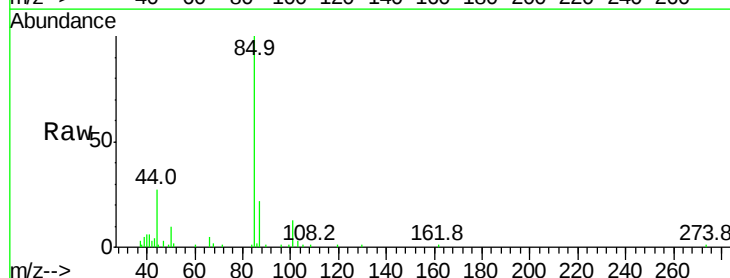
Acq: 8 Nov 2018 00:18

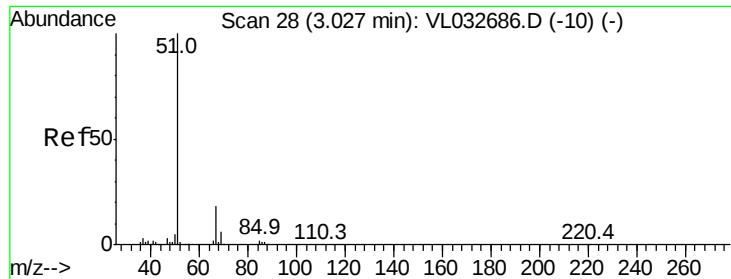
Tgt Ion: 85 Resp: 36471

Ion Ratio Lower Upper

85 100

87 22.4 26.2 39.2#





#3

Chlorodifluoromethane

Concen: 0.214 ppbv

RT: 3.02 min Scan# 26

Delta R.T. -0.00 min

Lab File: VL032731.D

Acq: 8 Nov 2018 00:18

Instrument :

MSVOA_L

ClientSampleId :

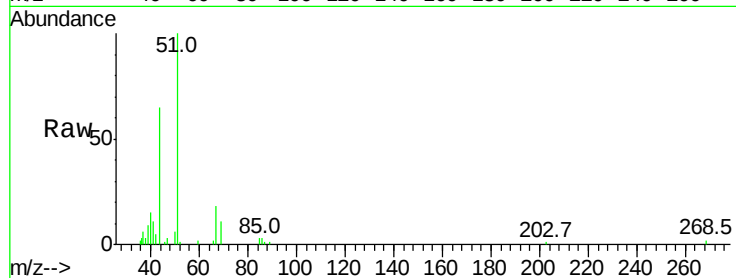
DUP-1

Tgt Ion: 51 Resp: 23523

Ion Ratio Lower Upper

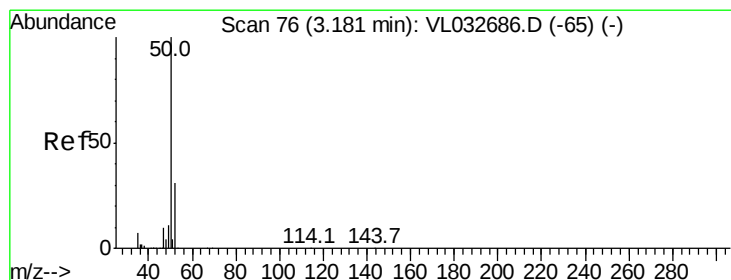
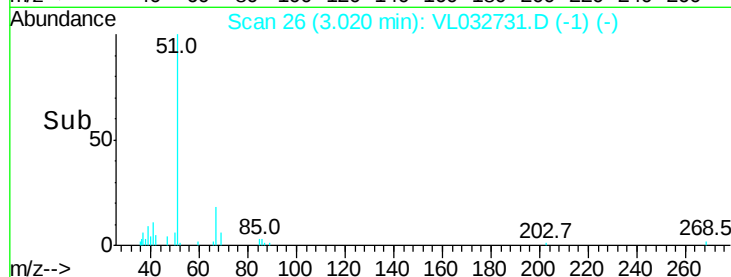
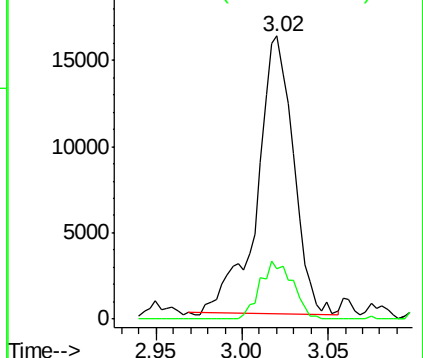
51 100

67 18.8 15.2 22.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.551 ppbv

RT: 3.17 min Scan# 74

Delta R.T. -0.00 min

Lab File: VL032731.D

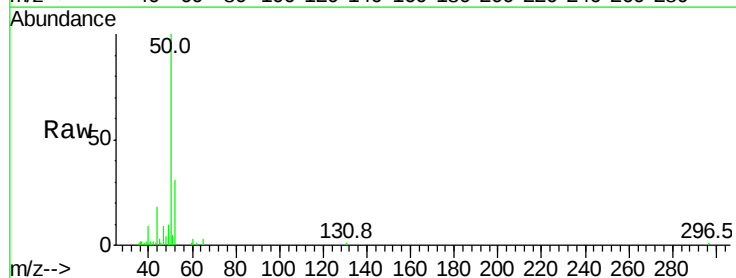
Acq: 8 Nov 2018 00:18

Tgt Ion: 50 Resp: 33878

Ion Ratio Lower Upper

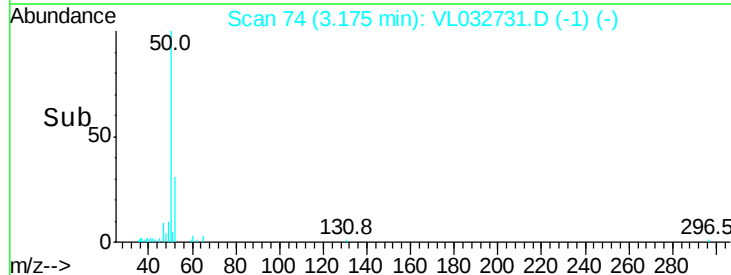
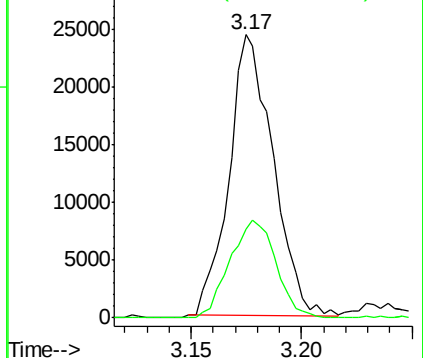
50 100

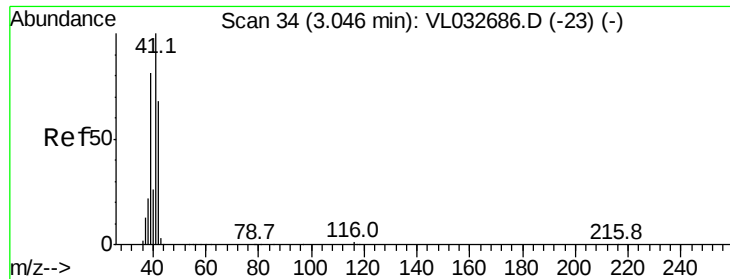
52 31.5 25.9 38.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 2.438 ppbv

RT: 3.04 min Scan# 33

Delta R.T. -0.00 min

Lab File: VL032731.D

Acq: 8 Nov 2018 00:18

Instrument :

MSVOA_L

ClientSampleId :

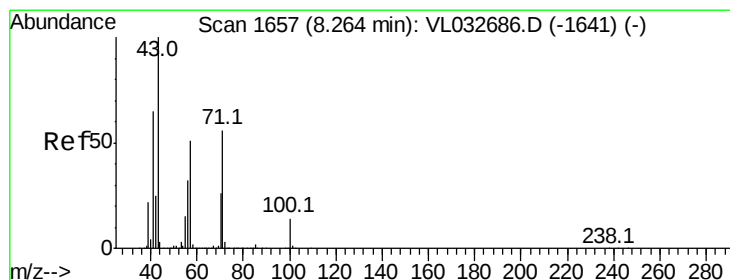
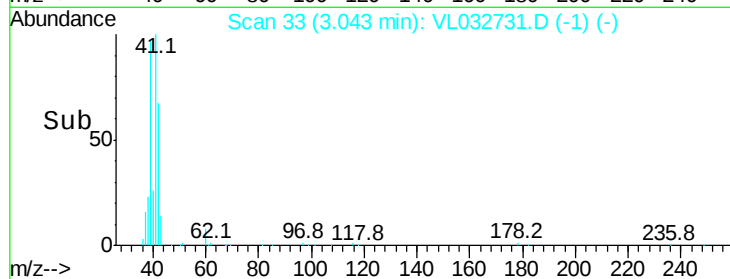
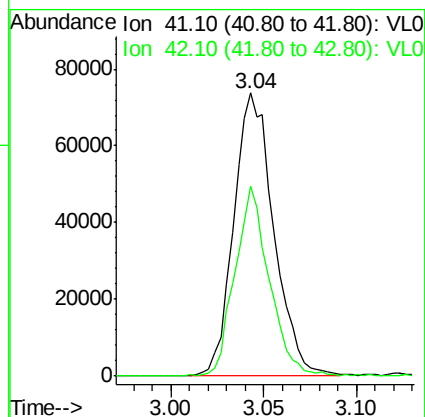
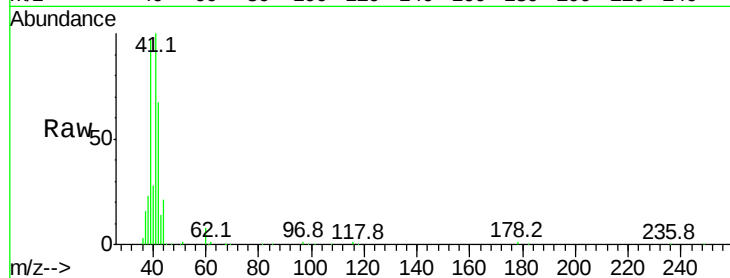
DUP-1

Tgt Ion: 41 Resp: 110378

Ion Ratio Lower Upper

41 100

42 58.1 55.4 83.0



#10

Heptane

Concen: 0.883 ppbv

RT: 8.25 min Scan# 1654

Delta R.T. -0.01 min

Lab File: VL032731.D

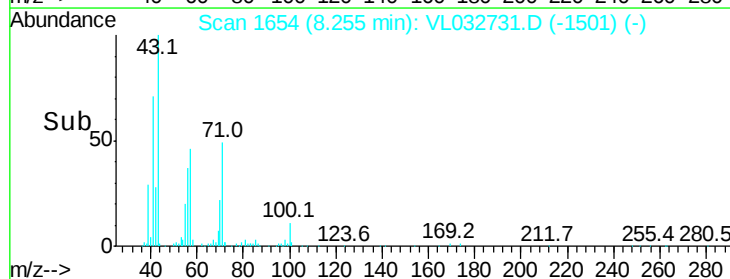
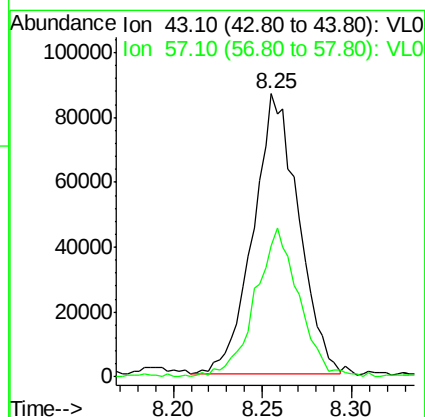
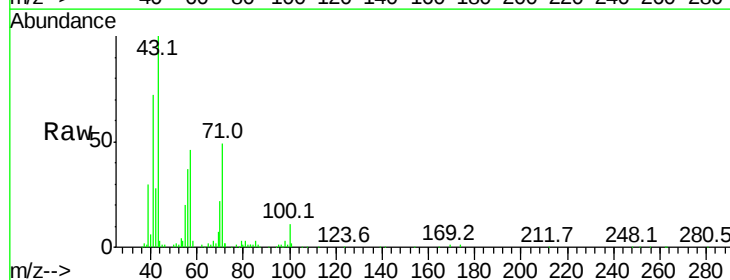
Acq: 8 Nov 2018 00:18

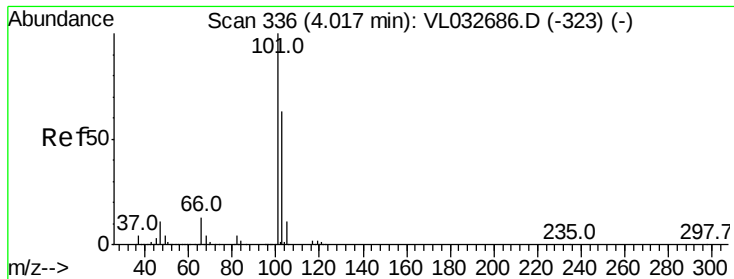
Tgt Ion: 43 Resp: 154159

Ion Ratio Lower Upper

43 100

57 51.4 41.5 62.3





#11

Trichlorofluoromethane

Concen: 0.228 ppbv

RT: 4.02 min Scan# 336

Delta R.T. 0.00 min

Lab File: VL032731.D

Acq: 8 Nov 2018 00:18

Instrument :

MSVOA_L

ClientSampleId :

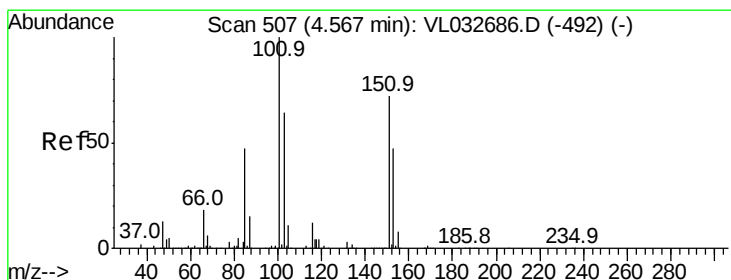
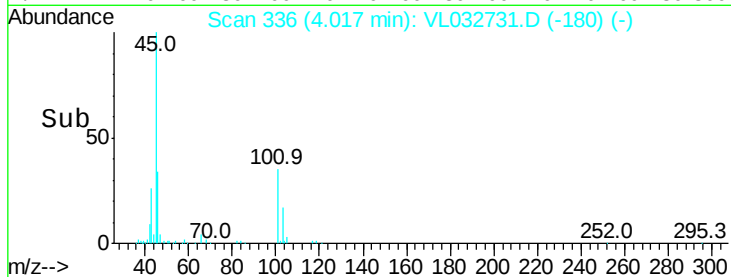
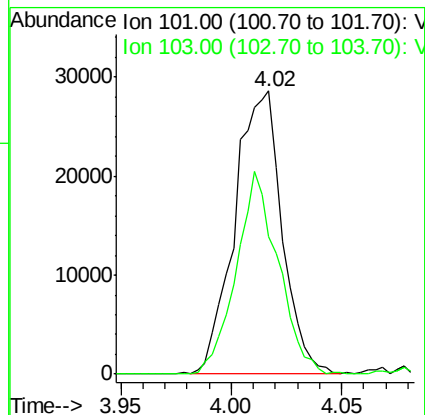
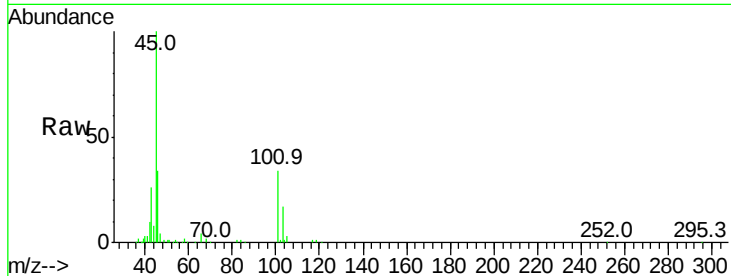
DUP-1

Tgt Ion:101 Resp: 42677

Ion Ratio Lower Upper

101 100

103 48.0 51.4 77.2#



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.048 ppbv

RT: 4.55 min Scan# 503

Delta R.T. -0.01 min

Lab File: VL032731.D

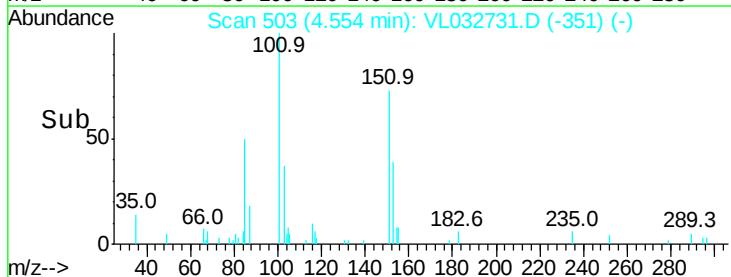
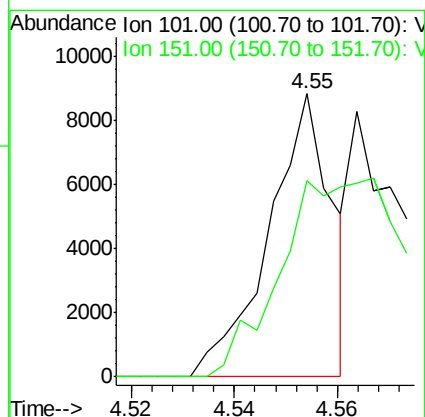
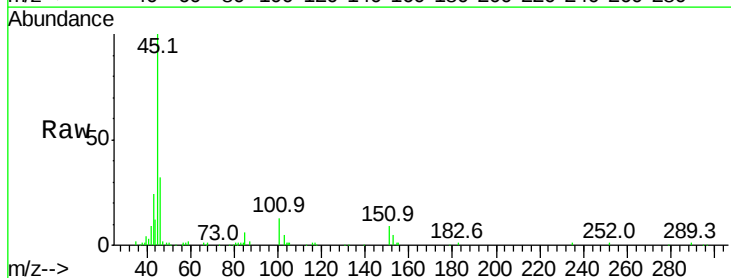
Acq: 8 Nov 2018 00:18

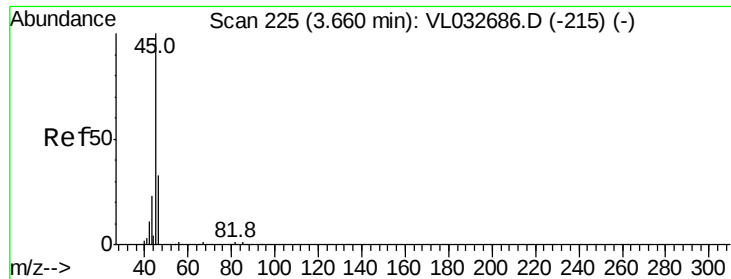
Tgt Ion:101 Resp: 7419

Ion Ratio Lower Upper

101 100

151 0.0 52.3 78.5#

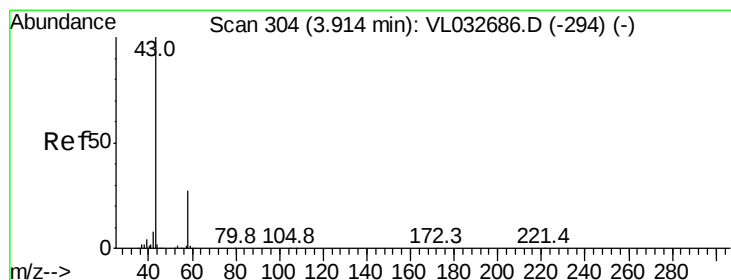
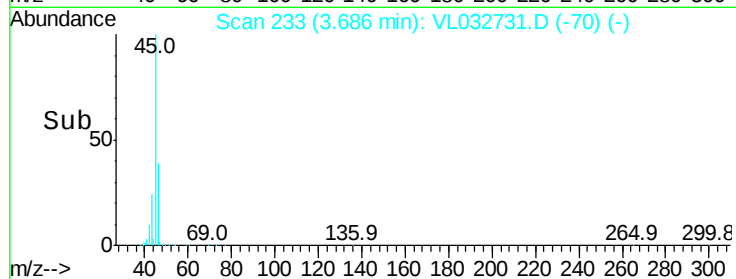
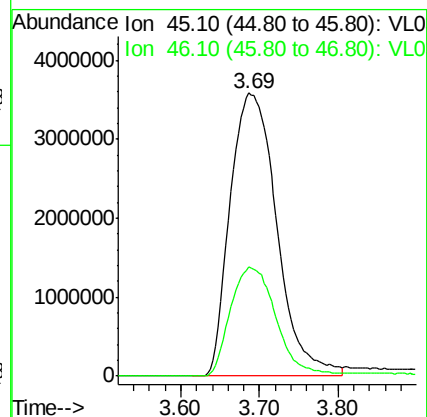
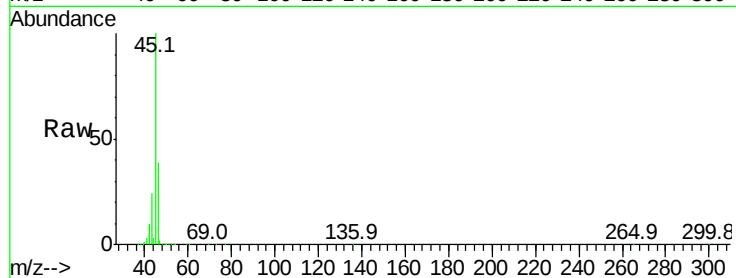




#13
Ethanol
Concen: 1147.413 ppbv
RT: 3.69 min Scan# 233
Delta R.T. 0.03 min
Lab File: VL032731.D
Acq: 8 Nov 2018 00:18

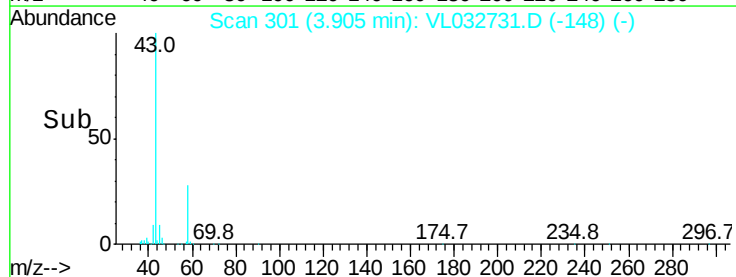
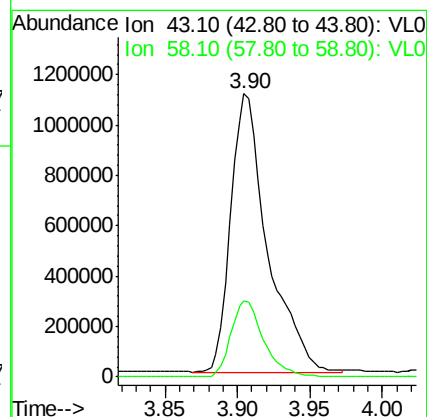
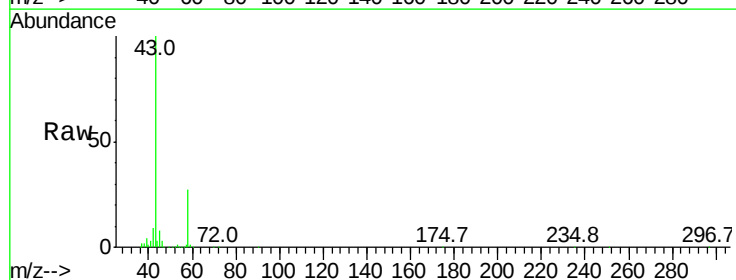
Instrument :
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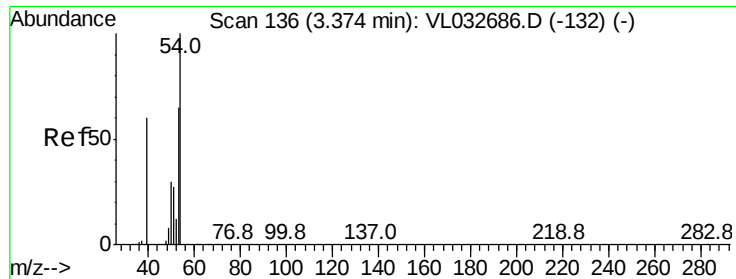
Tgt Ion: 45 Resp:14849779
Ion Ratio Lower Upper
45 100
46 38.9 15.4 61.8



#15
Acetone
Concen: 14.958 ppbv
RT: 3.90 min Scan# 301
Delta R.T. -0.01 min
Lab File: VL032731.D
Acq: 8 Nov 2018 00:18

Tgt Ion: 43 Resp: 1943367
Ion Ratio Lower Upper
43 100
58 24.6 22.1 33.1





#16

1,3-Butadiene

Concen: 2.717 ppbv

RT: 3.35 min Scan# 128

Delta R.T. -0.03 min

Lab File: VL032731.D

Acq: 8 Nov 2018 00:18

Instrument :

MSVOA_L

ClientSampleId :

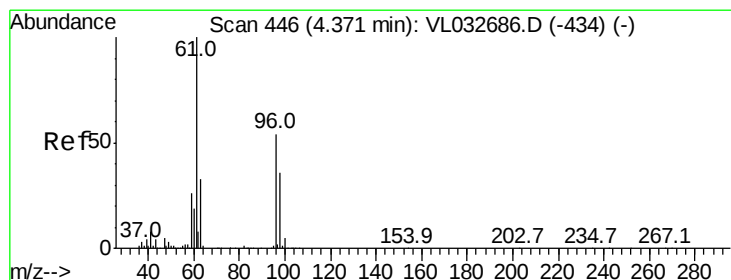
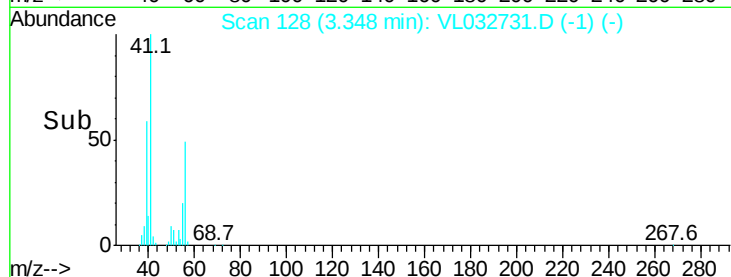
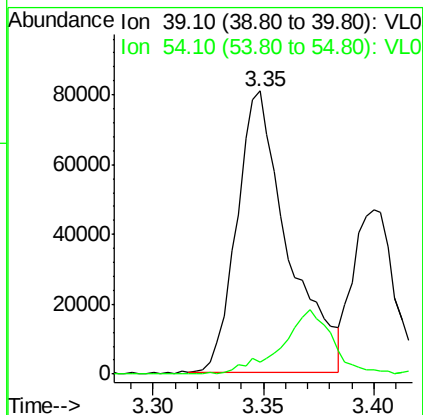
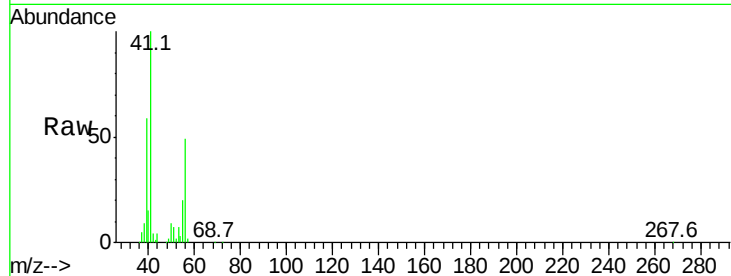
DUP-1

Tgt Ion: 39 Resp: 129858

Ion Ratio Lower Upper

39 100

54 23.1 90.4 135.6#



#17

tert-Butyl alcohol

Concen: 9.232 ppbv

RT: 4.41 min Scan# 457

Delta R.T. 0.03 min

Lab File: VL032731.D

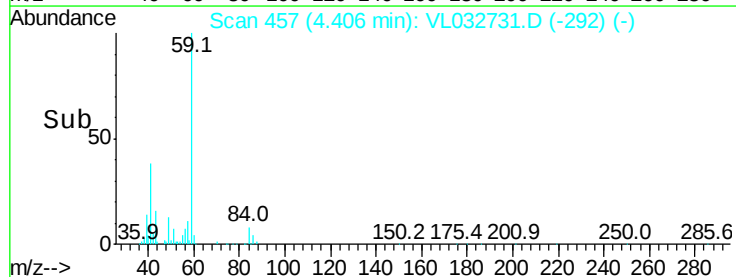
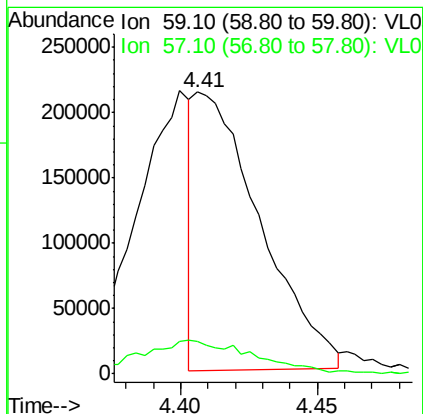
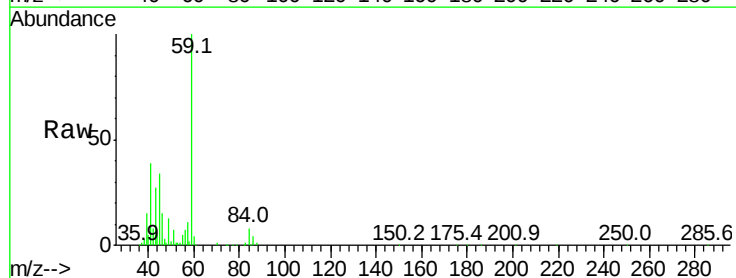
Acq: 8 Nov 2018 00:18

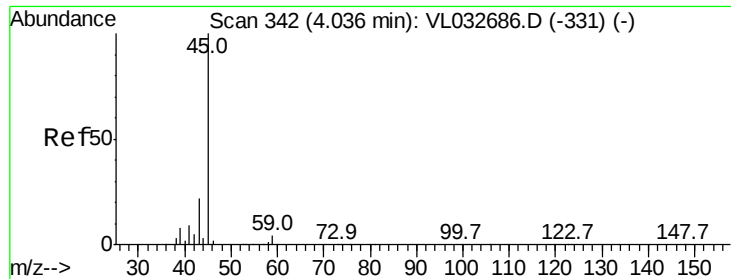
Tgt Ion: 59 Resp: 352772

Ion Ratio Lower Upper

59 100

57 21.6 0.0 0.0#





#19

Isopropyl Alcohol

Concen: 26.655 ppbv

RT: 4.07 min Scan# 352

Delta R.T. 0.04 min

Lab File: VL032731.D

Acq: 8 Nov 2018 00:18

Instrument :

MSVOA_L

ClientSampleId :

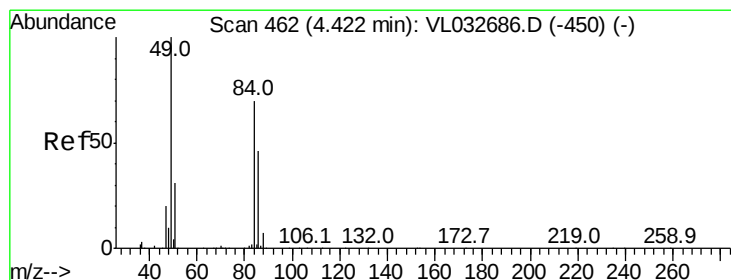
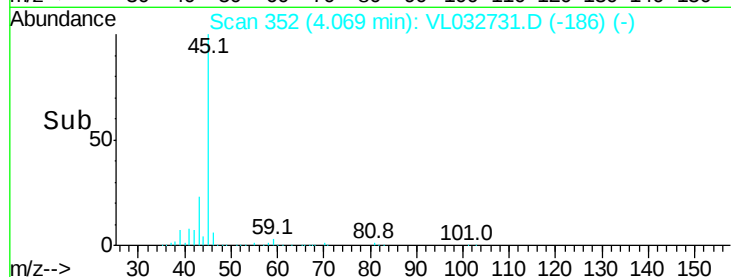
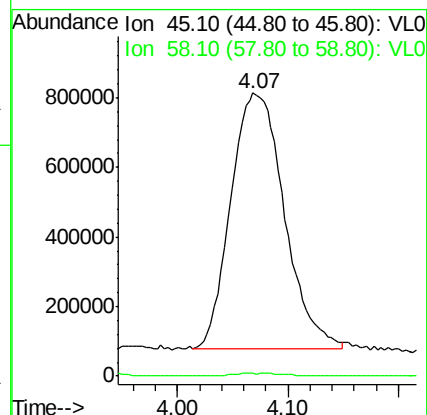
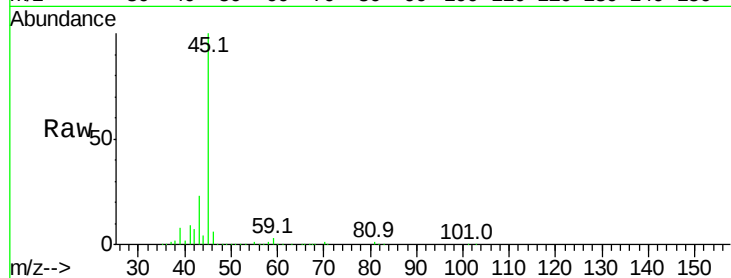
DUP-1

Tgt Ion: 45 Resp: 2466285

Ion Ratio Lower Upper

45 100

58 1.2 2.0 3.0#



#20

Methylene Chloride

Concen: 0.663 ppbv

RT: 4.42 min Scan# 461

Delta R.T. -0.00 min

Lab File: VL032731.D

Acq: 8 Nov 2018 00:18

Tgt Ion: 84 Resp: 43704

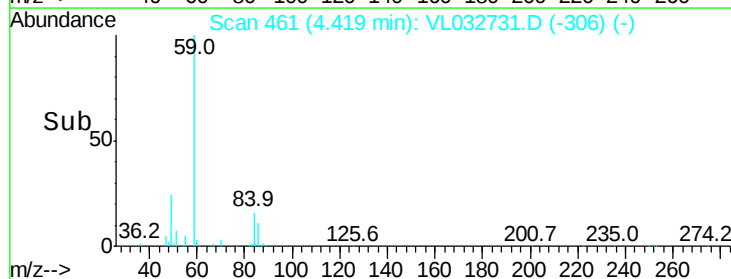
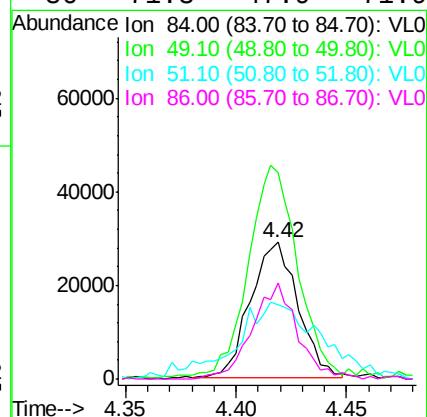
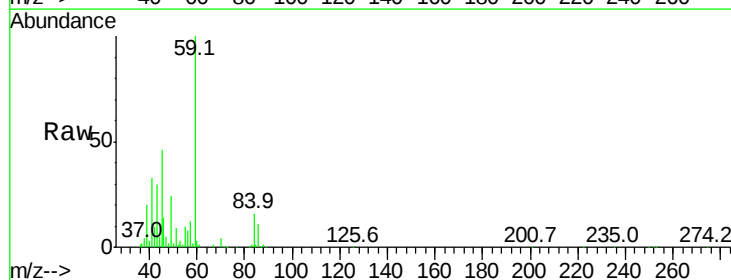
Ion Ratio Lower Upper

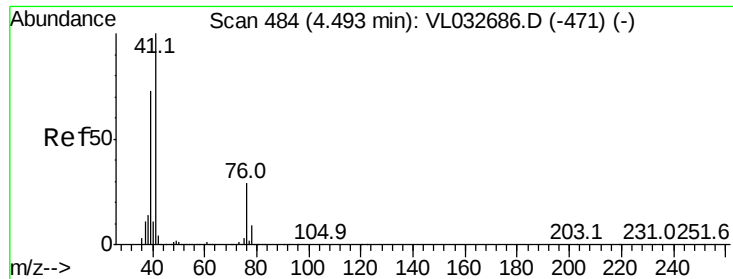
84 100

49 149.5 113.5 170.3

51 42.0 34.8 52.2

86 71.3 47.9 71.9





#21

Allyl Chloride

Concen: 0.573 ppbv

RT: 4.44 min Scan# 466

Delta R.T. -0.05 min

Lab File: VL032731.D

Acq: 8 Nov 2018 00:18

Instrument :

MSVOA_L

ClientSampleId :

DUP-1

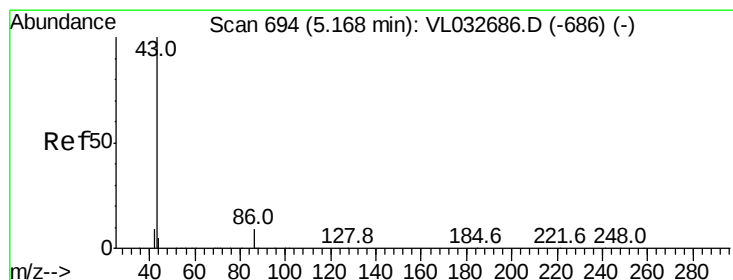
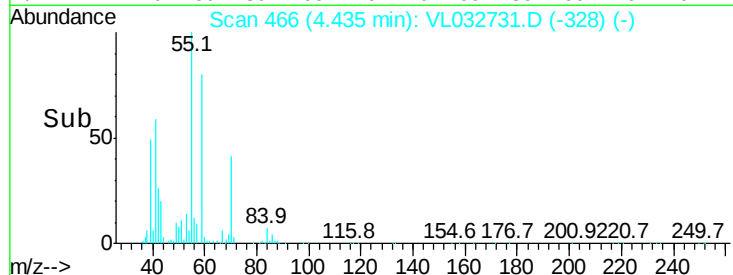
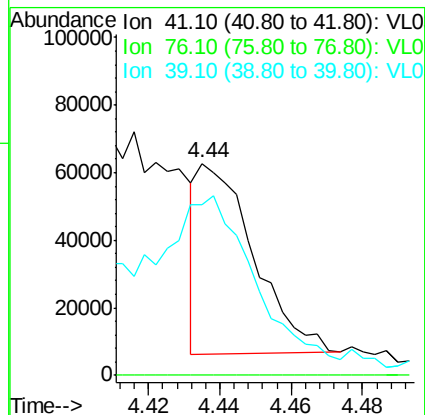
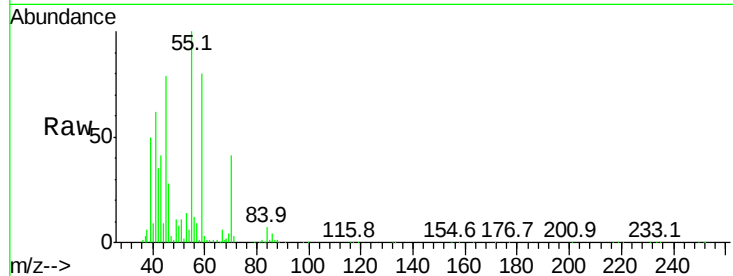
Tgt Ion: 41 Resp: 61118

Ion Ratio Lower Upper

41 100

76 0.0 24.3 36.5#

39 161.8 60.3 90.5#



#23

Vinyl Acetate

Concen: 1.269 ppbv

RT: 5.15 min Scan# 688

Delta R.T. -0.02 min

Lab File: VL032731.D

Acq: 8 Nov 2018 00:18

Tgt Ion: 43 Resp: 292262

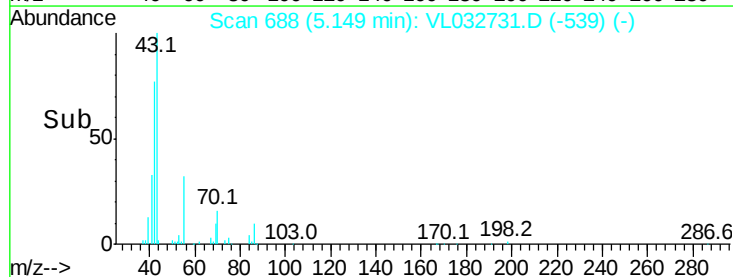
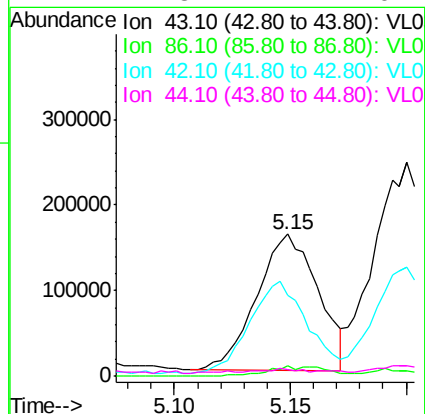
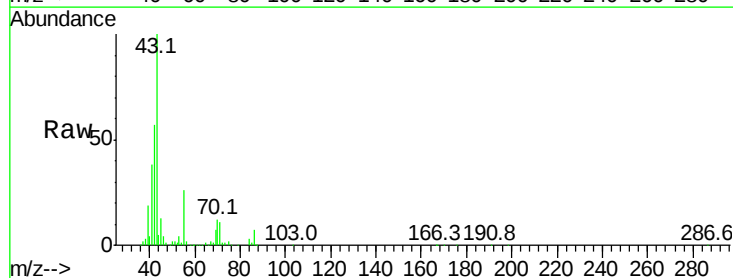
Ion Ratio Lower Upper

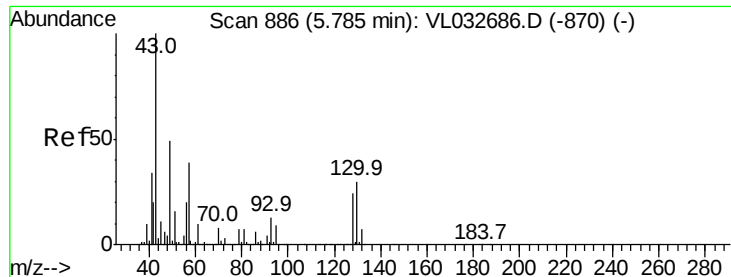
43 100

86 7.5 6.1 9.1

42 57.4 7.4 11.2#

44 2.8 4.2 6.2#

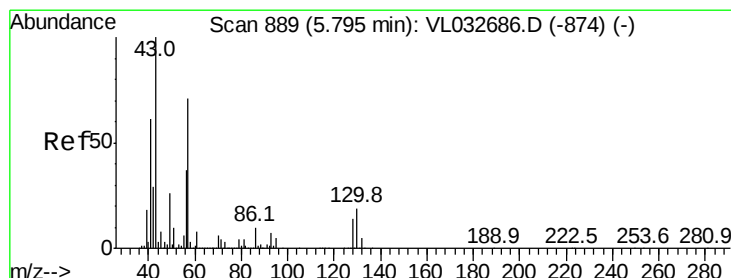
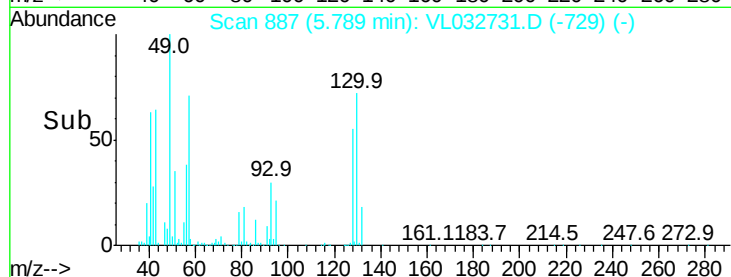
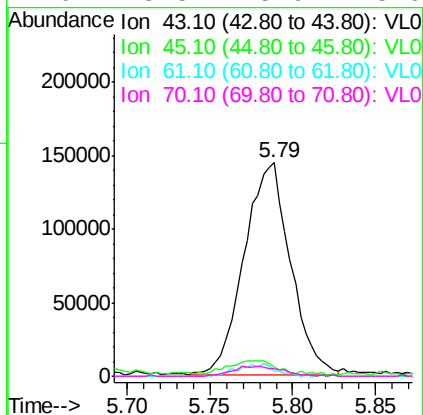
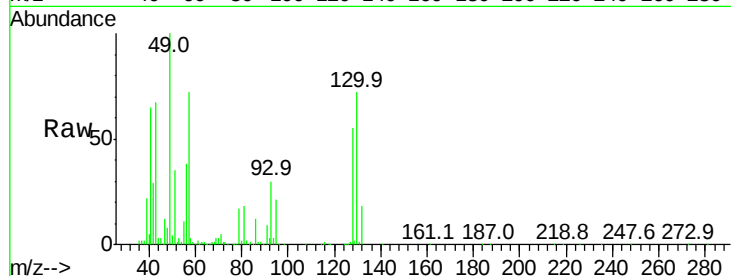




#25
Ethyl Acetate
Concen: 0.935 ppbv
RT: 5.79 min Scan# 887
Delta R.T. 0.01 min
Lab File: VL032731.D
Acq: 8 Nov 2018 00:18

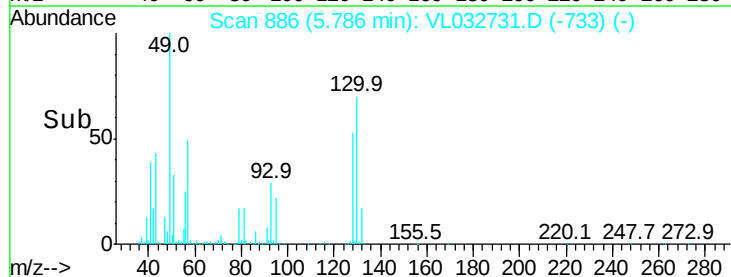
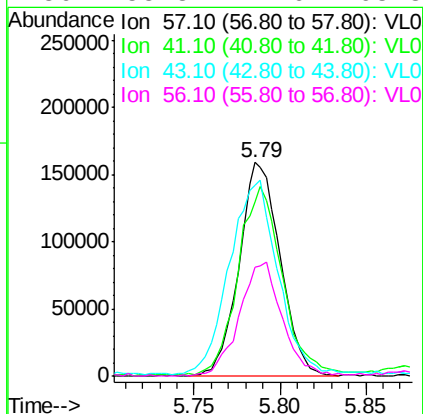
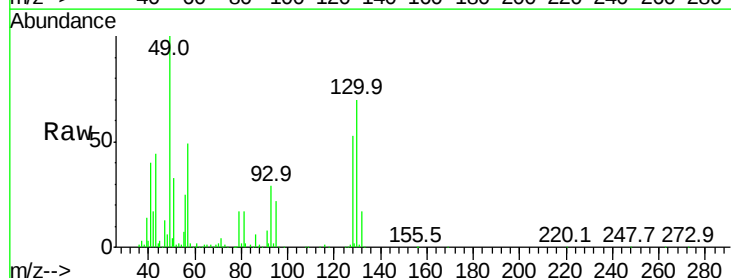
Instrument :
MSVOA_L
ClientSampled :
DUP-1

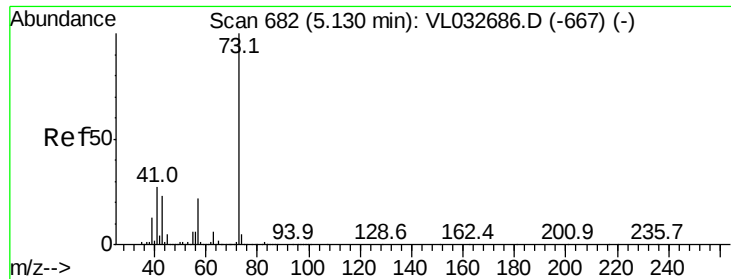
Tgt Ion:	43	Resp:	279499
Ion	Ratio	Lower	Upper
43	100		
45	7.7	8.0	12.0#
61	4.9	8.0	12.0#
70	5.5	5.9	8.9#



#26
Hexane
Concen: 1.861 ppbv
RT: 5.79 min Scan# 886
Delta R.T. -0.01 min
Lab File: VL032731.D
Acq: 8 Nov 2018 00:18

Tgt Ion:	57	Resp:	263303
Ion	Ratio	Lower	Upper
57	100		
41	94.9	67.4	101.0
43	107.7	171.9	257.9#
56	55.8	42.6	63.8





#28

Methyl tert-Butyl Ether

Concen: 0.039 ppbv

RT: 5.12 min Scan# 680

Delta R.T. -0.00 min

Lab File: VL032731.D

Acq: 8 Nov 2018 00:18

Instrument :

MSVOA_L

ClientSampleId :

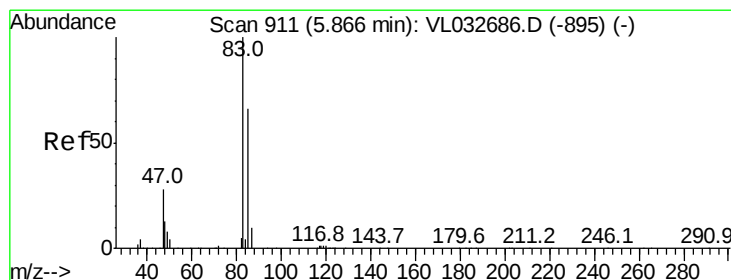
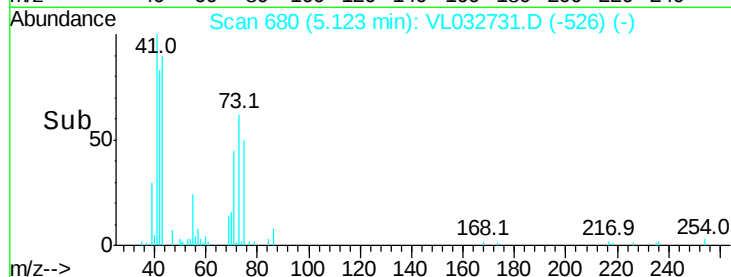
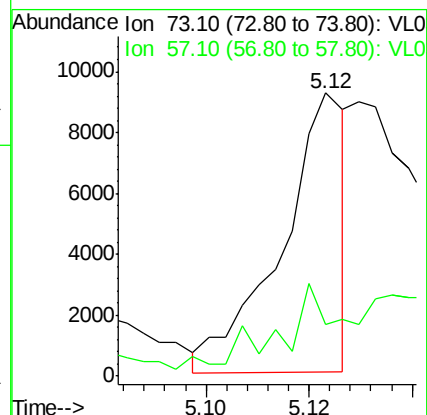
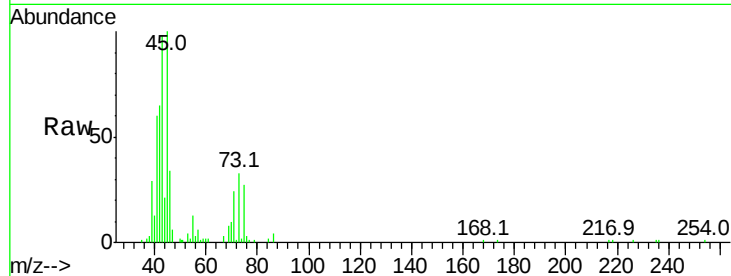
DUP-1

Tgt Ion: 73 Resp: 7961

Ion Ratio Lower Upper

73 100

57 0.0 18.0 27.0#



#29

Chloroform

Concen: 0.050 ppbv

RT: 5.86 min Scan# 908

Delta R.T. -0.01 min

Lab File: VL032731.D

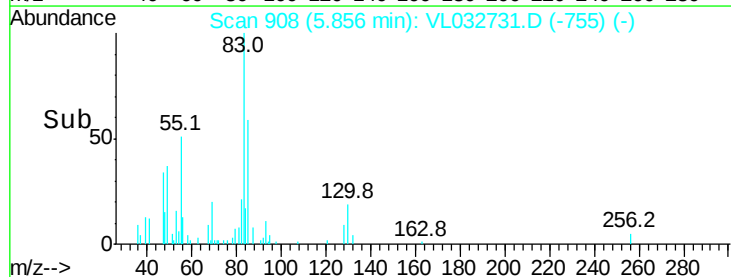
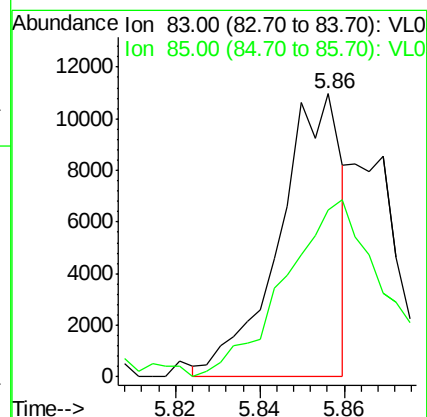
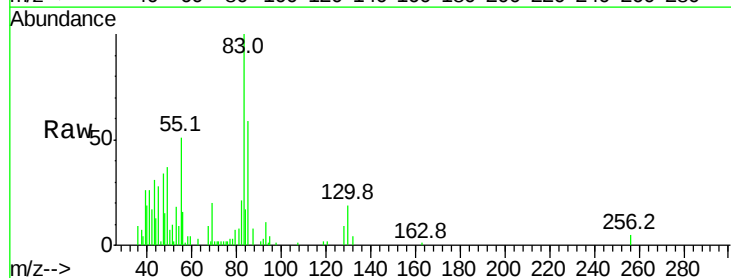
Acq: 8 Nov 2018 00:18

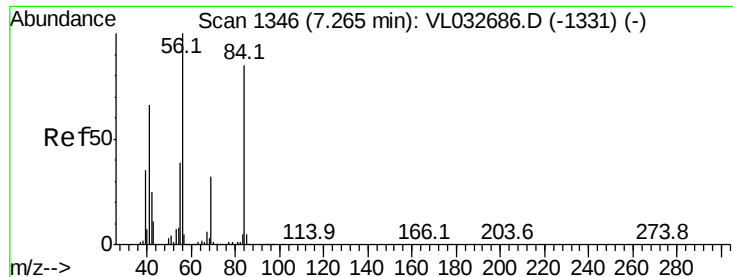
Tgt Ion: 83 Resp: 11224

Ion Ratio Lower Upper

83 100

85 61.2 53.0 79.6

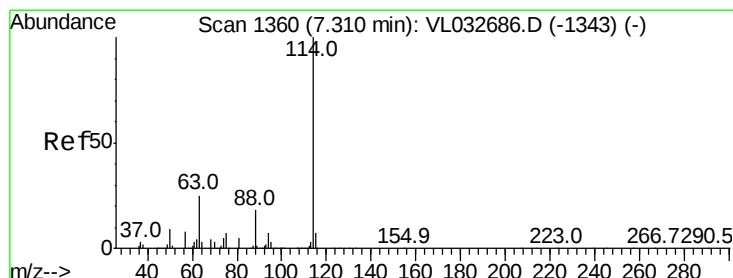
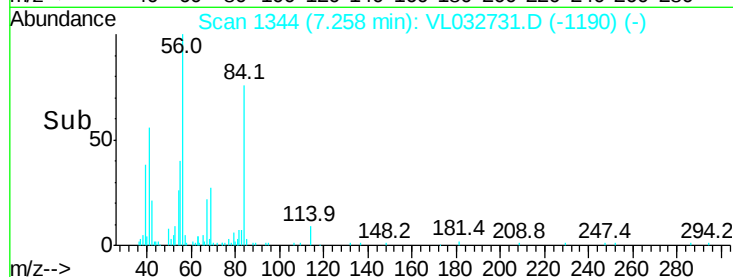
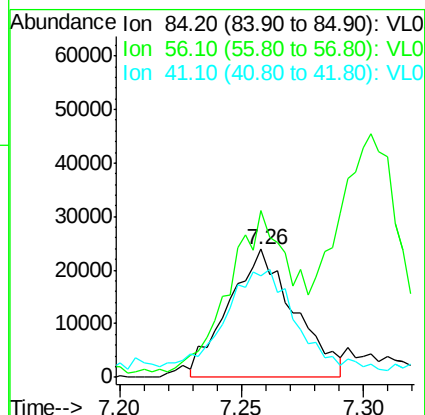
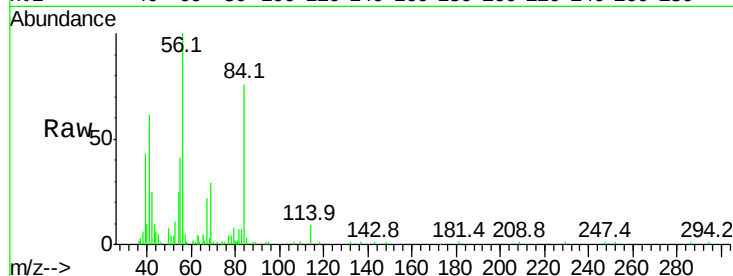




#30
Cyclohexane
Concen: 0.400 ppbv
RT: 7.26 min Scan# 1344
Delta R.T. -0.00 min
Lab File: VL032731.D
Acq: 8 Nov 2018 00:18

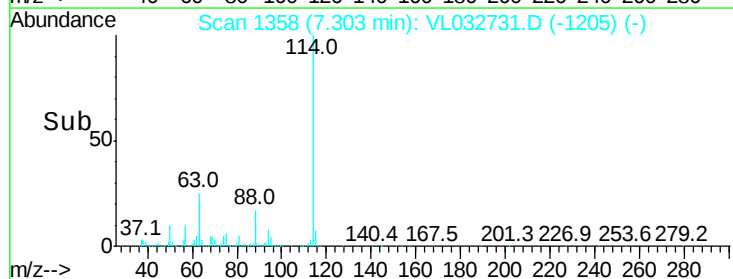
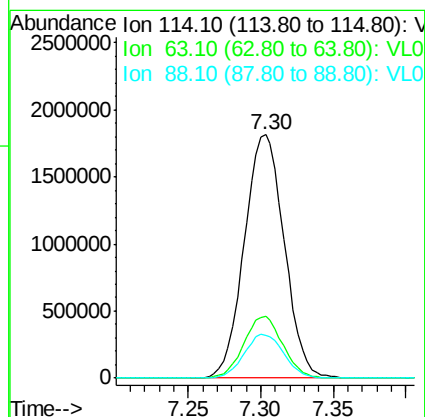
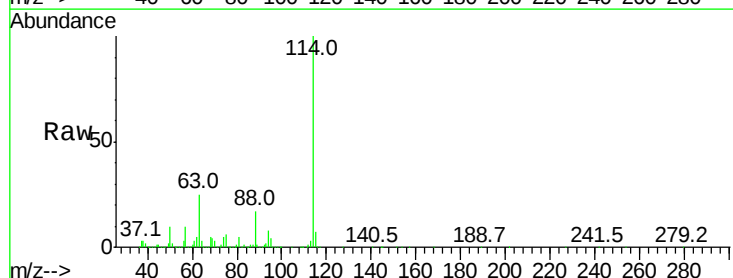
Instrument :
MSVOA_L
ClientSampleId :
DUP-1

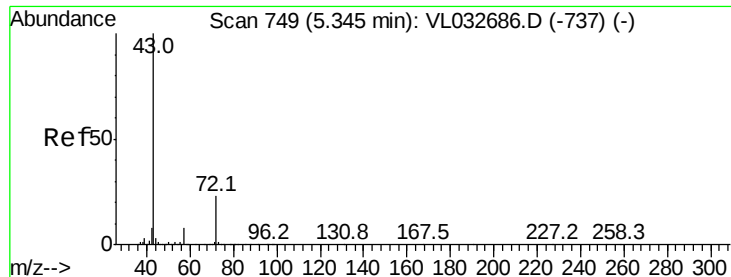
Tgt Ion: 84 Resp: 44831
Ion Ratio Lower Upper
84 100
56 113.7 108.3 162.5
41 93.0 64.8 97.2



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.30 min Scan# 1358
Delta R.T. -0.01 min
Lab File: VL032731.D
Acq: 8 Nov 2018 00:18

Tgt Ion: 114 Resp: 3482509
Ion Ratio Lower Upper
114 100
63 25.0 21.7 32.5
88 17.9 14.9 22.3





#34

2-Butanone

Concen: 1.487 ppbv

RT: 5.34 min Scan# 748

Delta R.T. 0.00 min

Lab File: VL032731.D

Acq: 8 Nov 2018 00:18

Instrument :

MSVOA_L

ClientSampleId :

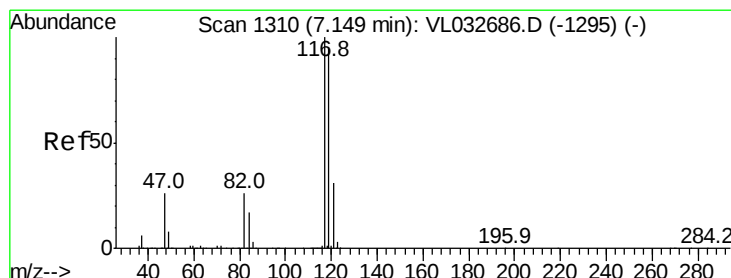
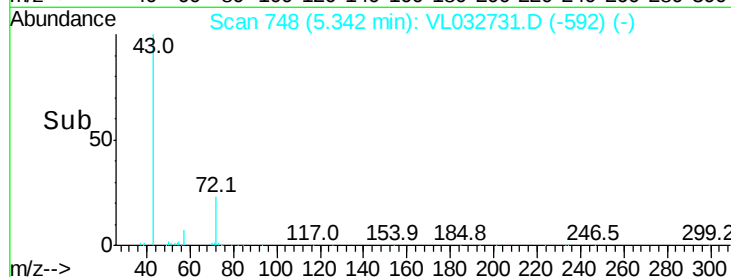
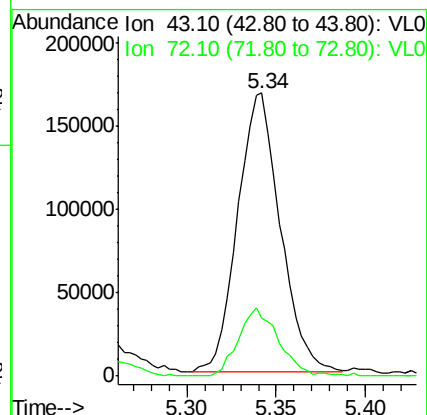
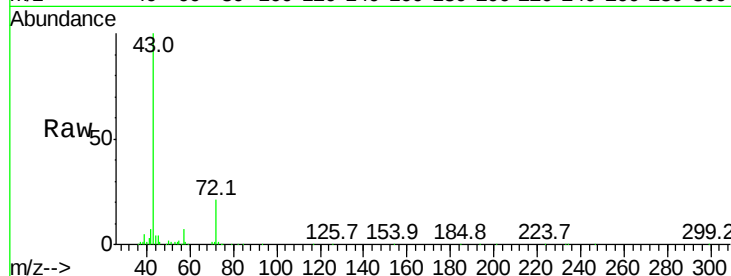
DUP-1

Tgt Ion: 43 Resp: 277601

Ion Ratio Lower Upper

43 100

72 23.5 18.6 27.8



#35

Carbon Tetrachloride

Concen: 0.065 ppbv

RT: 7.14 min Scan# 1307

Delta R.T. -0.01 min

Lab File: VL032731.D

Acq: 8 Nov 2018 00:18

Tgt Ion: 117 Resp: 16080

Ion Ratio Lower Upper

117 100

119 97.0 75.7 113.5

121 30.5 24.7 37.1

