

Data File : VL031421.D

Acq On : 22 Jan 2018 17:18

Operator : SY/AP

Sample : VSTDIC015

Misc : 400ml/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Quant Time: Jan 22 17:47:52 2018

Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL012218AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Jan 18 06:41:16 2018

QLast Update : Thu Jan 18 06:41:16 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.91	49	1267050	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.45	114	2887208	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	3208388	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.75	95	2568552	10.14	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.40%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.17	85	2093990	8.56	ppbv	98
3) Chlorodifluoromethane	3.11	51	2292043	12.26	ppbv	99
4) Chloromethane	3.27	50	1044058	12.40	ppbv	100
5) Vinyl Chloride	3.40	62	1075528	12.35	ppbv	99
6) Bromomethane	3.62	94	762717	13.10	ppbv	99
7) Chloroethane	3.71	64	443382	13.01	ppbv	99
8) Dichlorotetrafluoroethane	3.32	85	2588522	11.55	ppbv	99
9) Propene	3.13	41	872247	12.65	ppbv	99
10) Heptane	8.41	43	2706683	13.07	ppbv	99
11) Trichlorofluoromethane	4.12	101	3280988	12.59	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.68	101	2080096	12.59	ppbv	99
13) Ethanol	3.76	45	221493	6.41	ppbv	96
14) Bromoethene	3.90	108	890058	13.07	ppbv	99
15) Acetone	4.02	43	2199976	10.46	ppbv	100
16) 1,3-Butadiene	3.47	39	1000035	12.72	ppbv	100
17) tert-Butyl alcohol	4.48	59	1163638	12.08	ppbv	99
18) 1,1-Dichloroethene	4.48	96	931431	12.84	ppbv	97
19) Isopropyl Alcohol	4.14	45	1466835	10.19	ppbv	100
20) Methylene Chloride	4.54	84	855970	11.29	ppbv	98
21) Allyl Chloride	4.60	41	1488250	13.08	ppbv	99
22) trans-1,2-Dichloroethene	5.10	96	988641	12.79	ppbv	96
23) Vinyl Acetate	5.29	43	3029233	12.71	ppbv	100
24) 1,1-Dichloroethane	5.23	63	2468552	12.26	ppbv	99
25) Ethyl Acetate	5.91	43	4226603	11.77	ppbv	100
26) Hexane	5.93	57	1889119	12.57	ppbv	99
27) Carbon Disulfide	4.75	76	2653745	13.23	ppbv	100
28) Methyl tert-Butyl Ether	5.25	73	2364989	12.93	ppbv	100
29) Chloroform	6.00	83	3138115	12.15	ppbv	100
30) Cyclohexane	7.40	84	1515201	12.61	ppbv	98
31) cis-1,2-Dichloroethene	5.78	61	1881447	12.87	ppbv	95
32) 1,1,1-Trichloroethane	6.77	97	3256775	12.04	ppbv	100
34) 2-Butanone	5.47	43	2785215	11.60	ppbv	100
35) Carbon Tetrachloride	7.30	117	3425398	12.43	ppbv	97
36) Benzene	7.16	78	3702325	12.38	ppbv	99
37) 1,2-Dichloroethane	6.57	62	2753464	12.50	ppbv	100
38) Trichloroethene	8.12	130	1625832	13.11	ppbv	99
39) 1,2-Dichloropropane	7.90	63	1434492	12.98	ppbv	95
40) 1,4-Dioxane	8.12	88	593852	10.70	ppbv	87
41) Tetrahydrofuran	6.29	42	1496156	12.28	ppbv	99
42) Bromodichloromethane	8.08	83	3526335	13.00	ppbv	100
43) Methyl Methacrylate	8.30	69	1537718	13.79	ppbv	99

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Response via : Initial Calibration

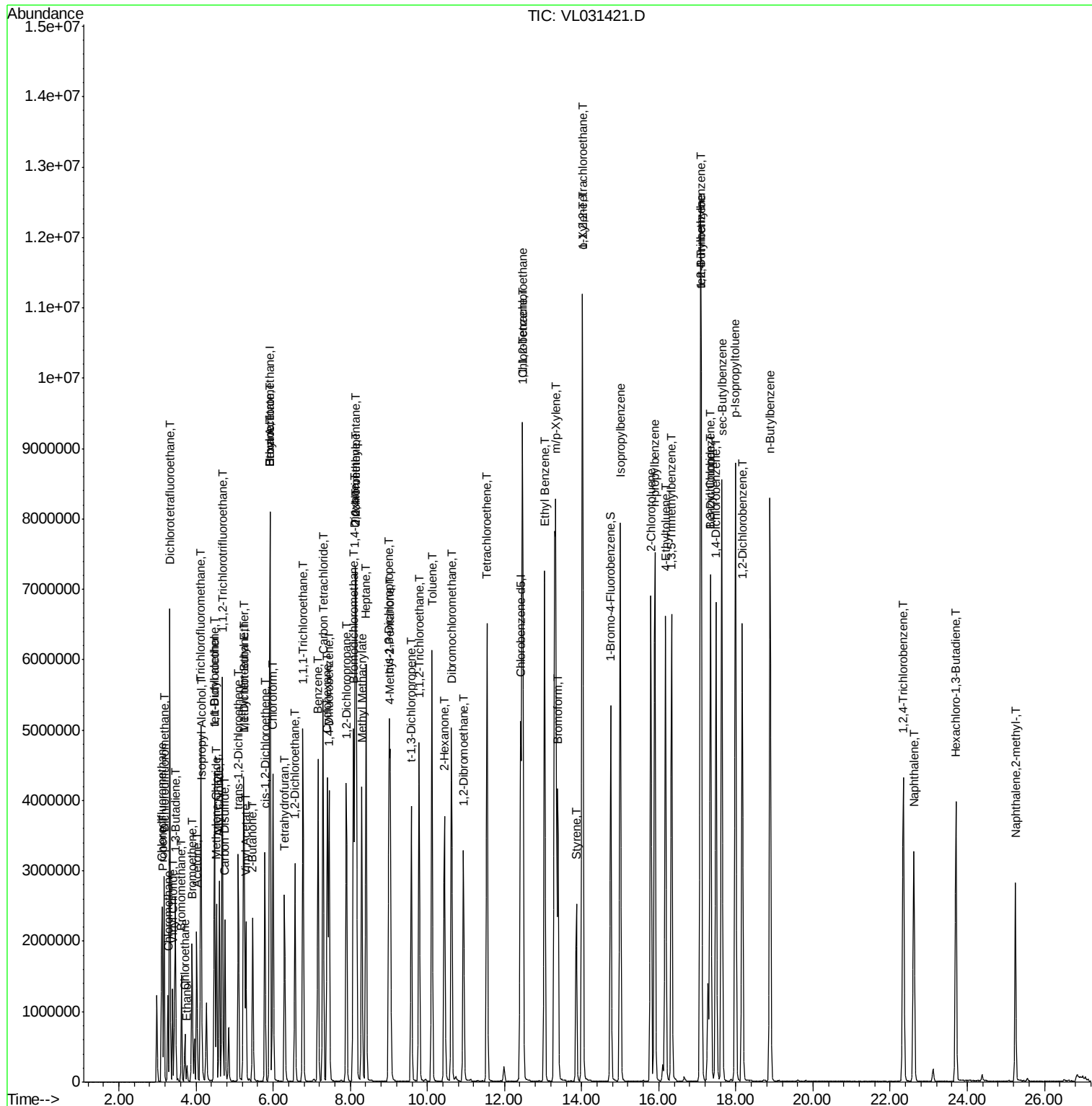
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.15	57	6366030	12.71	ppbv	100
45) t-1,3-Dichloropropene	9.58	75	2363566	15.40	ppbv	99
46) cis-1,3-Dichloropropene	9.00	75	2754265	14.52	ppbv	98
47) 1,1,2-Trichloroethane	9.79	97	1704629	13.11	ppbv	98
48) Dibromochloromethane	10.63	129	3171016	13.78	ppbv	99
49) Bromoform	13.38	173	2423100	13.39	ppbv	99
50) 4-Methyl-2-Pentanone	9.03	43	3842199	12.12	ppbv	100
51) 2-Hexanone	10.44	43	3841590	11.93	ppbv #	100
52) Tetrachloroethene	11.55	164	1522697	12.93	ppbv	98
53) Toluene	10.12	91	4837633	13.73	ppbv	100
54) 1,2-Dibromoethane	10.94	107	2763333	13.55	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.46	131	2103711	12.71	ppbv #	75
57) Chlorobenzene	12.48	112	3797858	12.53	ppbv	98
58) Ethyl Benzene	13.04	91	6791412	12.96	ppbv	98
59) m/p-Xylene	13.32	91	6088815	14.05	ppbv #	42
60) o-Xylene	14.03	91	5639094	12.75	ppbv	99
61) Styrene	13.86	104	1449150	14.94	ppbv	99
62) Isopropylbenzene	15.00	105	6982331	12.56	ppbv	99
63) 1,1,2,2-Tetrachloroethane	14.01	83	3669046	11.00	ppbv	99
64) n-propylbenzene	15.90	120	1786434	12.79	ppbv	95
65) tert-Butylbenzene	17.09	119	6153975	12.45	ppbv	98
66) Benzyl Chloride	17.33	91	712009	15.34	ppbv	100
67) sec-Butylbenzene	17.63	105	8458817	12.05	ppbv	99
69) p-Isopropyltoluene	17.99	119	6972993	12.48	ppbv	100
70) n-Butylbenzene	18.89	91	7081296	12.15	ppbv	99
71) 2-Chlorotoluene	15.79	91	5343134	12.51	ppbv	99
72) 4-Ethyltoluene	16.17	105	5823839	12.89	ppbv	100
73) 1,3,5-Trimethylbenzene	16.33	105	5190032	12.92	ppbv	99
74) 1,2,4-Trimethylbenzene	17.10	105	5516912	12.62	ppbv	94
75) 1,3-Dichlorobenzene	17.34	146	3389436	12.03	ppbv	100
76) 1,4-Dichlorobenzene	17.48	146	3428084	12.27	ppbv	100
77) 1,2-Dichlorobenzene	18.17	146	3286149	11.80	ppbv	99
78) Hexachloro-1,3-Butadiene	23.70	225	936911	10.48	ppbv	99
79) Naphthalene	22.61	128	3982016	18.70	ppbv	99
80) Naphthalene,2-methyl-	25.25	142	1456410	27.60	ppbv	99
81) 1,2,4-Trichlorobenzene	22.34	180	1962519	15.81	ppbv	100

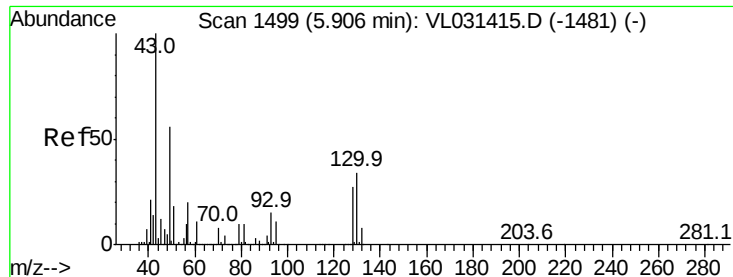
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ALS Vial : 1 Sample Multiplier: 1

VSTDICC015

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.91 min Scan# 1500

Delta R.T. -0.00 min

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VSTDIC015

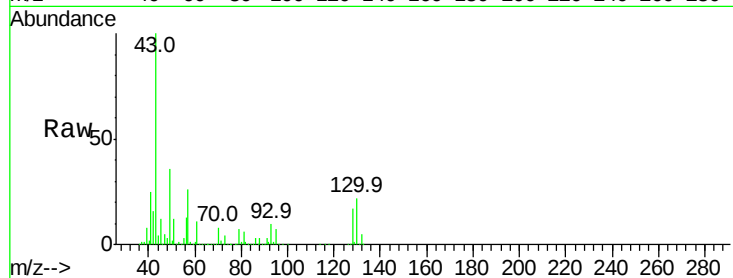
Tgt Ion: 49 Resp: 1267050

Ion Ratio Lower Upper

49 100

128 47.5 23.5 70.6

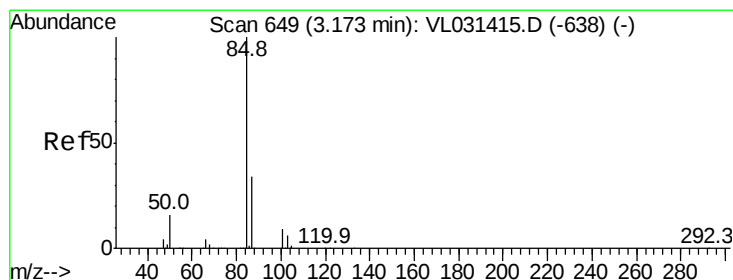
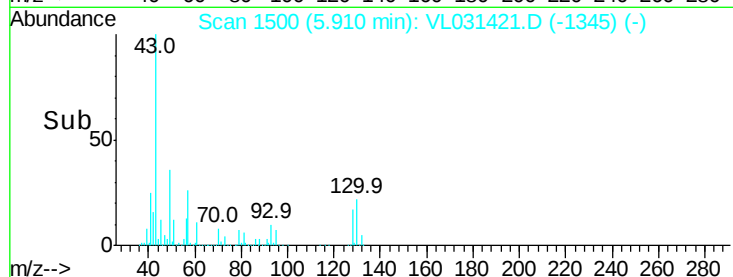
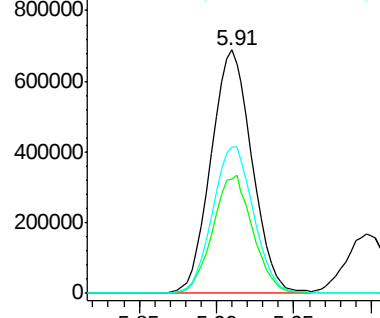
130 60.5 29.9 89.7



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 8.56 ppbv

RT: 3.17 min Scan# 649

Delta R.T. -0.00 min

Lab File: VL031421.D

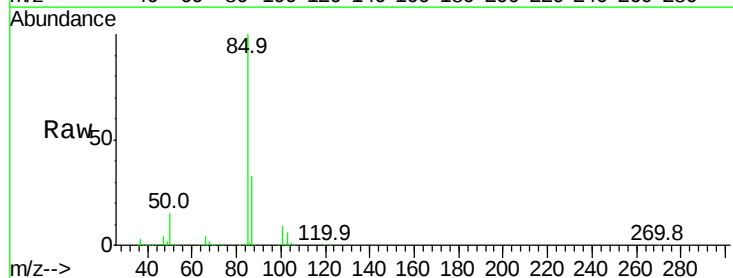
Acq: 22 Jan 2018 17:18

Tgt Ion: 85 Resp: 2093990

Ion Ratio Lower Upper

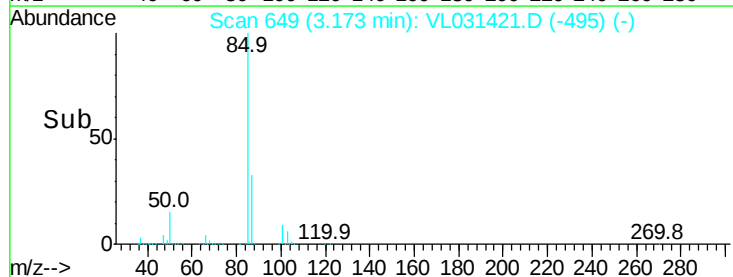
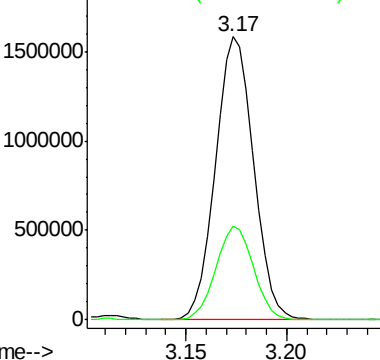
85 100

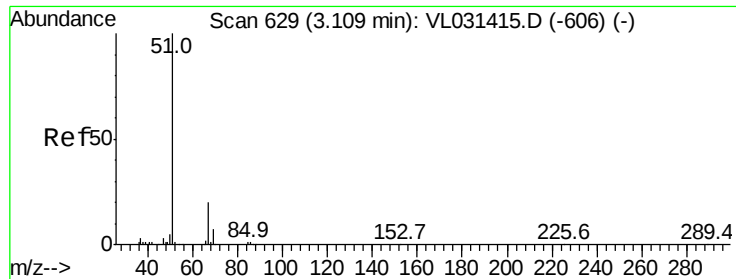
87 33.1 27.4 41.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 12.26 ppbv

RT: 3.11 min Scan# 629

Delta R.T. -0.00 min

Lab File: VL031421.D

Acq: 22 Jan 2018 17:18

Instrument :

MSVOA_L

ClientSampleId :

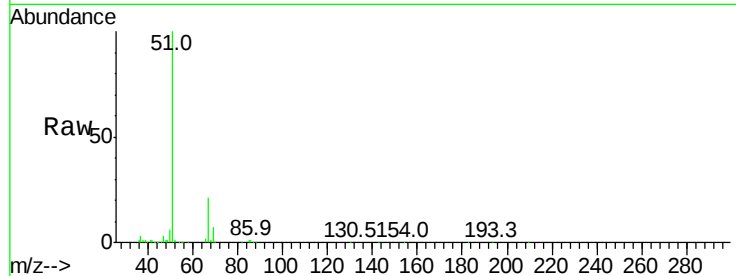
VSTDIC015

Tgt Ion: 51 Resp: 2292043

Ion Ratio Lower Upper

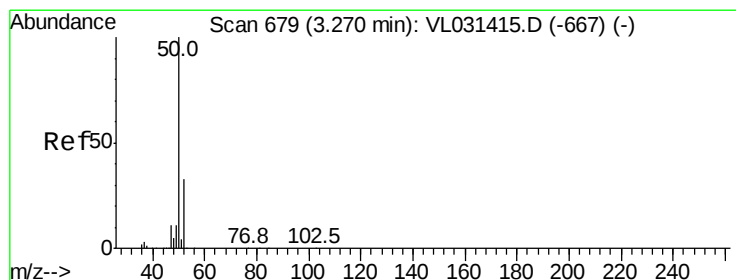
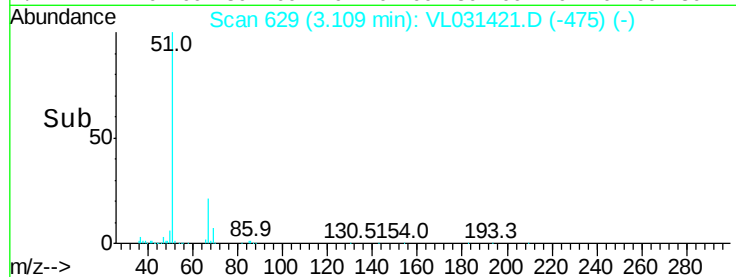
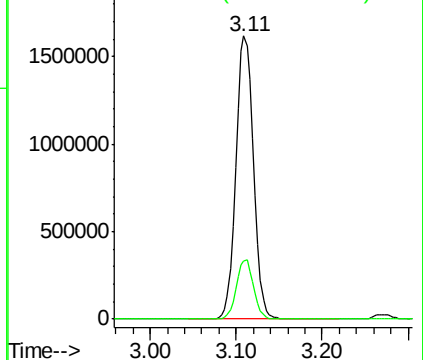
51 100

67 20.6 16.0 24.0



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 12.40 ppbv

RT: 3.27 min Scan# 679

Delta R.T. -0.00 min

Lab File: VL031421.D

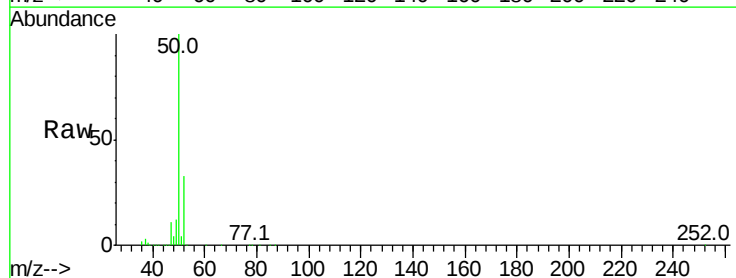
Acq: 22 Jan 2018 17:18

Tgt Ion: 50 Resp: 1044058

Ion Ratio Lower Upper

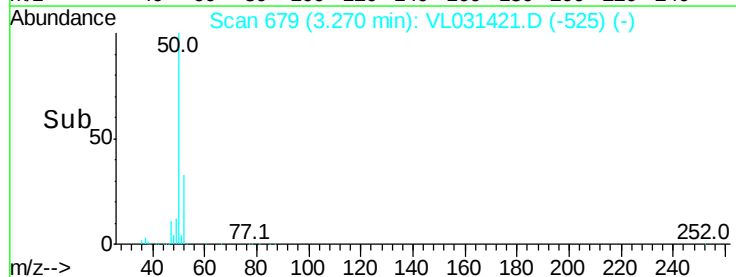
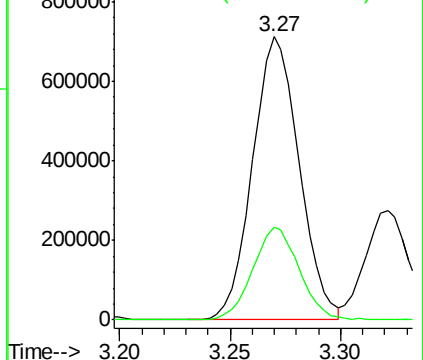
50 100

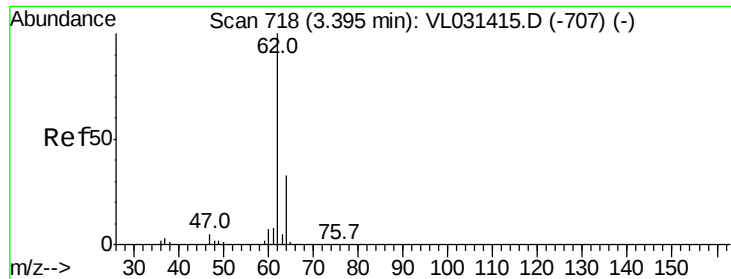
52 32.9 26.4 39.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 12.35 ppbv

RT: 3.40 min Scan# 718

Delta R.T. -0.00 min

Lab File: VL031421.D

Acq: 22 Jan 2018 17:18

Instrument :

MSVOA_L

ClientSampleId :

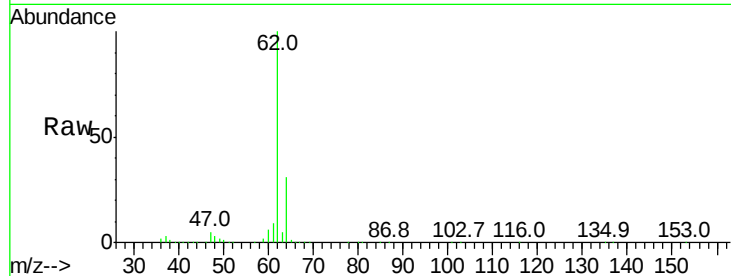
VSTDIC015

Tgt Ion: 62 Resp: 1075528

Ion Ratio Lower Upper

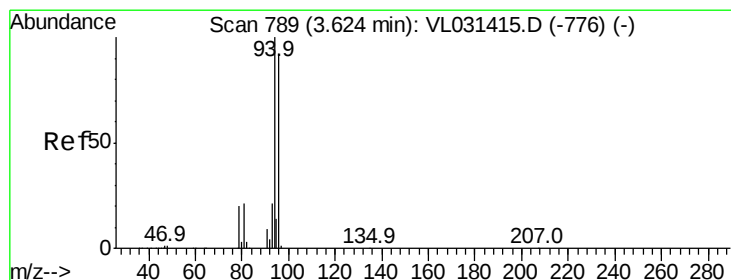
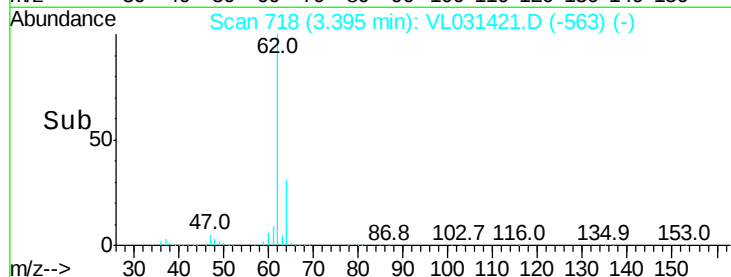
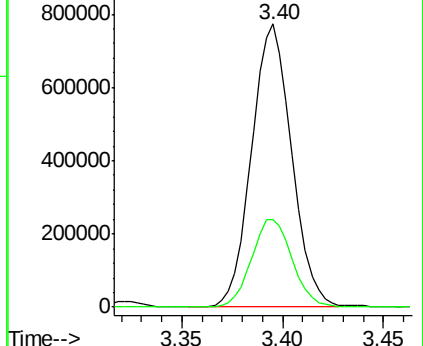
62 100

64 31.0 25.4 38.0



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 13.10 ppbv

RT: 3.62 min Scan# 789

Delta R.T. -0.00 min

Lab File: VL031421.D

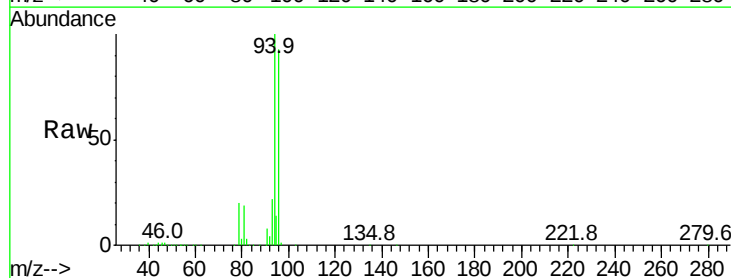
Acq: 22 Jan 2018 17:18

Tgt Ion: 94 Resp: 762717

Ion Ratio Lower Upper

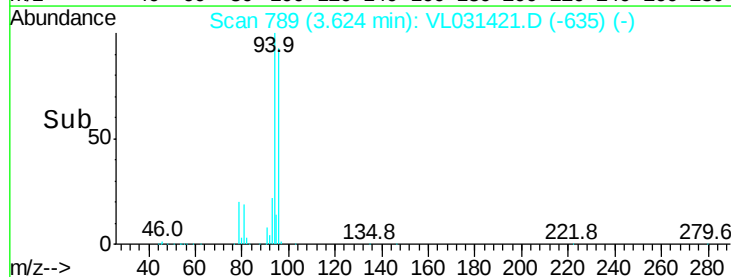
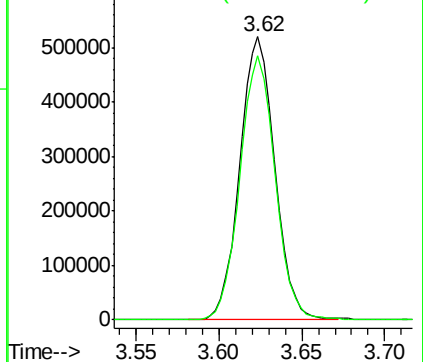
94 100

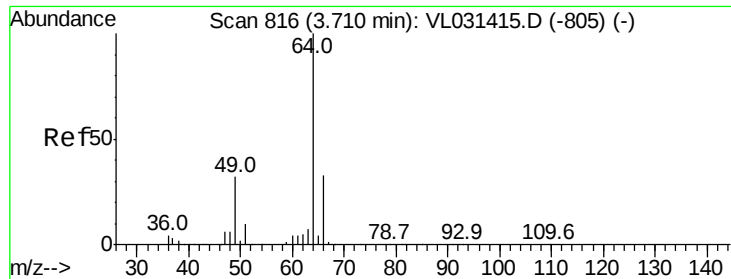
96 93.4 75.1 112.7



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 13.01 ppbv

RT: 3.71 min Scan# 817

Delta R.T. -0.00 min

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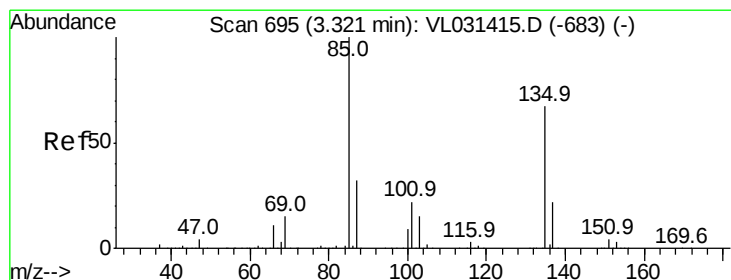
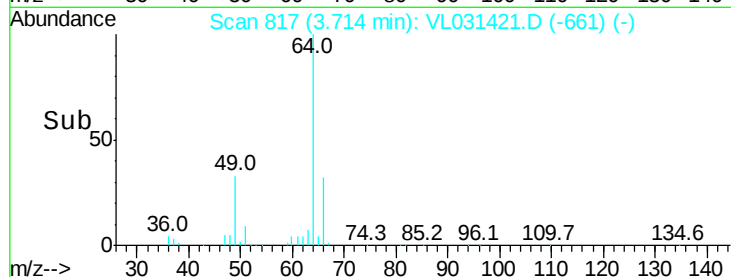
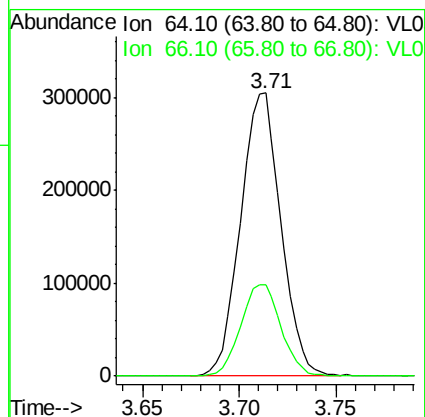
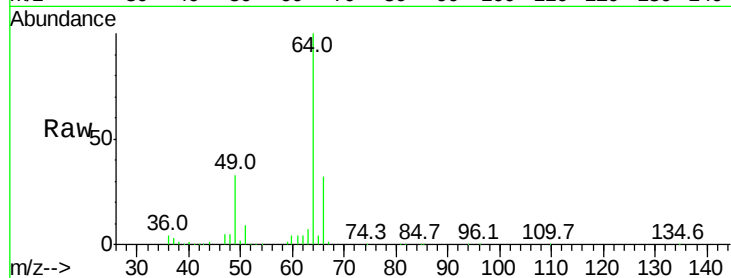
VSTDIC015

Tgt Ion: 64 Resp: 443382

Ion Ratio Lower Upper

64 100

66 32.3 26.3 39.5



#8

Dichlorotetrafluoroethane

Concen: 11.55 ppbv

RT: 3.32 min Scan# 695

Delta R.T. -0.00 min

Lab File: VL031421.D

Acq: 22 Jan 2018 17:18

Tgt Ion: 85 Resp: 2588522

Ion Ratio Lower Upper

85 100

135 67.1 53.3 79.9

